CRITICAL MISSION FUEL SYSTEMS

EQUIPMENT BY NAME

- CMFTS (Critical Mission)
- CMDR-FOC-CM (Critical Mission)
- CMDR-FOC-FOS (Multi-Fuction)
- CMDR-ASC (Auto Stick)
- CMDR-AVI (Aviation)
- CMDR-LLM (Day/Main Tank)
- ATG-ENC (Tank Gauge Enclosure)
- DPS (Duplex Pumpsets)
- FPS (Fuel Polishing)
- RFB (Remote Fill Boxes)
- SITEMANAGER (Pump/Disp Power)
- SMARTFILL (Tank Power Fill)
- WATCHDOG (Battery Backup)

EQUIPMENT BY APPLICATION

- CRITICAL MISSION
- DAY TANKS/BOILERS
- AVIATION FUELING
- PUMP SET SYSTEMS
- DAYTANKS 5-1000GAL
  - * Day Tanks
- FLEET FUELING
- FUEL POLISHING
- MARINA FUELING
- OIL WATER SEPERATOR
- TANK FILLING
- TANK GAUGING
- TANK HEATERS
- ACCESSORIES
- Heater Systems
- Probes - Sensors
- Anti Siphon Systems
- Conduits / Wiring
- Emergency Phones
- Serious Surge Protection
- Service Parts

- COMMERCIAL CONTROLS
  - Emergency Stop
  - BioDiesel Blending
  - Lighting
  - Main Tank
  - Operator Stations
  - Process Control/Flow
  - Pump/Motor Starter
  - Digital/Modbus Converter

- RETAIL CONTROLS
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls. Integrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The CMFTS is designed using state of the art equipment and technologies. The CMFTS integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
- * Leak and Level Devices
- * Flow Indicators and Sensors
- * Motor Starters and Overloads
- * Water and Pressure Switches
- * Pump Motors and Valves
- Integrates with the Building Management System (BMS)
· Utilizes Three Modes of Operations:
  * Fully Automatic Mode
  * Supervise the Manual Mode
· Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

· Automatic Polished Fuel
· Product Level In US Gallons.
· Product Level In Inches.
· Product Level In Percent Of Full Tank Capacity.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Low Level Warnings.
· Low Level Alarms.
· Optional Remote Fill Station Enunciation.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak DetectionSensors.
· Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

· Automatic Polished Fuel.
· Monitoring the Volume of the Day Tanks.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Normal Product Levels. (Maintained by Integrated Pump Controls)
· Low Level Warnings.
· Low Level Alarms.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak DetectionSensors.
· Integrates with Mechanical Overfill Valves.
· Pre-assembled Valve Box Enclosure integrates with:
  * Flow Switch
  * Visual Flow Indicator
  * Critical Mission Fuel Supply Solenoid Valve
  * Pressure Gauge
  * Lockable Manual Bypass Valve
  * Equipment Strainer
· Pre-assembled Return Pump System In Enclosure.
· Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly
Multiple Commercial Boiler Systems:

- Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

- Automatic pump alternation sequencing.
- Lead Lag Pump Controls.(MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as
Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.

- Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.
- The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
- The System Reports All Conditions Back to the Building Management System.
- The System Is Purchased and Maintained by a Single Source.
- Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

- All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
- All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
- All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
- Available in Single Phase or Three-Phase (50 or 60 Hz)
- Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls.

Integrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordingly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Switch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
- * Leak and Level Devices
- * Flow Indicators and Sensors
- * Motor Starters and Overloads
- * Water and Pressure Switches
- * Pump Motors and Valves
- Integrates with the Building Management System (BMS)
- Utilizes Three Modes of Operations:
  - * Fully Automatic Mode
  - * Supervise the Manual Mode
* Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

* Automatic Polished Fuel
* Product Level In US Gallons.
* Product Level In Inches.
* Product Level In Percent Of Full Tank Capacity.
* Overfill Protection.
* High Level Alarms.
* High Level Warnings.
* Low Level Warnings.
* Low Level Alarms.
* Optional Remote Fill Station Enunciation.
* Interstitial (Double Wall Tank) Leak Detection Sensors.
* Piping Sump Leak Detection Sensors.
* Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

* Automatic Polished Fuel.
* Monitoring the Volume of the Day Tanks.
* Overfill Protection.
* High Level Alarms.
* High Level Warnings.
* Normal Product Levels. (Maintained by Integrated Pump Controls)
* Low Level Warnings.
* Low Level Alarms.
* Interstitial (Double Wall Tank) Leak Detection Sensors.
* Piping Sump Leak Detection Sensors.
* Integrates with Mechanical Overfill Valves.
* Pre-assembled Valve Box Enclosure integrates with:
  * Flow Switch
  * Visual Flow Indicator
  * Critical Mission Fuel Supply Solenoid Valve
  * Pressure Gauge
  * Lockable Manual Bypass Valve
  * Equipment Strainer
* Pre-assembled Return Pump System In Enclosure.
* Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly

Multiple Commercial Boiler Systems:

* Monitors the Boilers for Automatic Fuel Deliveries.
· Automatically Polishes the Fuel Upon Delivery.
· Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

· Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
· Automatically Polishes the Fuel on a Scheduled Basis.
· Polishes the Fuel from the Main Storage Tanks.
· Polishes the Fuel from the Days Storage Tanks.
· Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
· Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
· Monitors System Pressure and Differential Pressure Across the Elements.
· High Water Sensors.
· Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

· Automatic pump alternation sequencing.
· Lead Lag Pump Controls. (MISSION-CRITICAL)
· Automatic Pump Alternation Sequence.
· Enclosure Leak Detection Sensor.
· Monitored Pump Performance.
· Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

· Double Wall Pipe.
· Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

· Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
· Available 4 to 20 mA Output Of Fuel Levels to the BMS System
· Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
· Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

· One Incoming Power Source for Complete System.
· Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
· These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.
· Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main
Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.

· The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
· The System Reports All Conditions Back to the Building Management System.
· The System Is Purchased and Maintained by a Single Source.
· Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

· All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
· All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
· All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
· Available in Single Phase or Three-Phase (50 or 60 Hz)
· Available in Multiple Voltages.

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More Information
Duplex pump sets range from 1 to 60 GPM. Made using all stainless steel pipe and fittings, carbon and bronze ball valves.

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls.

Integrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

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Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
- * Leak and Level Devices
- * Flow Indicators and Sensors
- * Motor Starters and Overloads
- * Water and Pressure Switches
- * Pump Motors and Valves
- Integrates with the Building Management System (BMS)
· Utilizes Three Modes of Operations:
  * Fully Automatic Mode
  * Supervise the Manual Mode
· Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

  · Automatic Polished Fuel
  · Product Level In US Gallons.
  · Product Level In Inches.
  · Product Level In Percent Of Full Tank Capacity.
  · Overfill Protection.
  · High Level Alarms.
  · High Level Warnings.
  · Low Level Warnings.
  · Low Level Alarms.
  · Optional Remote Fill Station Enunciation.
  · Interstitial (Double Wall Tank) Leak Detection Sensors.
  · Piping SumpLeak DetectionSensors.
  · Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

  · Automatic Polished Fuel.
  · Monitoring the Volume of the Day Tanks.
  · Overfill Protection.
  · High Level Alarms.
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  · Normal Product Levels. (Maintained by Integrated Pump Controls)
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  · Interstitial (Double Wall Tank) Leak Detection Sensors.
  · Piping SumpLeak DetectionSensors.
  · Integrates with Mechanical Overfill Valves.
  · Pre-assembled Valve Box Enclosure integrates with:
    * Flow Switch
    * Visual Flow Indicator
    * Critical Mission Fuel Supply Solenoid Valve
    * Pressure Gauge
    * Lockable Manual Bypass Valve
    * Equipment Strainer
  · Pre-assembled Return Pump System In Enclosure.
  · Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly
Multiple Commercial Boiler Systems:

- Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
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- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

- Automatic pump alternation sequencing.
- Lead Lag Pump Controls. (MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
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- The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
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Specifications:

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- Product Level In Percent Of Full Tank Capacity.
- Overfill Protection.
- High Level Alarms.
- High Level Warnings.
- Low Level Warnings.
- Low Level Alarms.
- Optional Remote Fill Station Enunciation.
- Interstitial (Double Wall Tank) Leak Detection Sensors.
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- Main Tank Level Balancing (With Multiple Tanks)

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Specifications:

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More Information
CMDR-FOC-FOS

The Smart Controller ~ Multi-Function Controller

One system for the entire facility monitoring and controlling your complete fueling systems.

Commander Fuel Oil Controller system monitors tank levels and supplies pump controls for automatic fuel transfers for applications requiring day tanks and institutional boilers. The Smart Controls intelligently integrates all the components of the fueling system in to one simple automated package. Superior quality components insure years of trouble free service. It's a turn-key system that providing one call for service and support for the entire system if required. We are the leader in the industry in mission critical and non-mission critical automated fueling systems.

Integrates the following into one systems:

- Main Tank Level Monitor
- Day Tank Automatic Fill and Return Pump System
- Boiler Feed Controls
- Duplex Pump Controller
- Fuel Polishing System
- Power Fill System (PTO)
- Leak Detection System

The Main Storage Tank, Monitors up to 1 Main Tank:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Main Tank Fuel Polishing (optional)
- Present and Historical Alarm Conditions.
- Remote Fill Station Enunciator (optional).
- Anti-siphon Supply valve with Mechanical Bypass (standard)
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
Day Tanks, Monitors up to 2 Day Tanks:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- Pump Fill Stop Status.
- Pump Fill Start Status.
- Return Pump Start Status.
- Return Pump Stop Status.
- Low Level Alarm Status.
- Over Fill Level Mechanical Sensor (OFS).
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Leak Sensor.
- Present and Historical Alarm Conditions.
- Optional Remote Fill Station Enunciator.
- High Level Overfill Safety Solenoid Valve Relay Driven from The (OFS).
- Day Tank Supply Fill Valve with Mechanical Bypass (standard).
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
- 10 GPM Flow Restrictor.
- Remote Day Tank High Level Enunciator (optional).

The Boilers, Communicated up to 8 Boilers:

- Monitors a Boiler Feed Pressure Switch (optional).
- Controls boiler feed control valves (optional).
- Supplies Present and Historical Alarm Conditions.
- Piping Sump Leak Sensor.
- Day Tank Supply Fill Valve with Mechanical Bypass (optional).
- Visual Flow Indicator, Strainer and Isolation Ball Valve (optional).
- End Loop Back Pressure Regulator (optional).

The Pump(s) Simplex or Duplex:

- Works with Either Submersible or Positive Displacement (PD) Pumps.
- Lead / Lag Supply Pumps (option).
- Day / Belly Tank Return Pumps (option).
- Fuel Polishing Pump (option).
- Power Fill PTO Pump (option).
- Pump Run Status.
- Pump Overload Status.
- Pump Sump Leak Detection Sensor.
- Pump Pressure/Vacuum Sensor (optional).
- Pump Differential Pressure Sensors (optional).
- Variable Speed Motor Drives (optional).

The Filtration/Fuel Polishing System:

- Monitors up to 3 Stages of Filtration and Strainers
- Polishes Effectively to 1 Micron (2 Micron is Standard)
- Monitors Filter Differential Pressure.
- Monitors the Filter Water Separator for Water.
- Programmable 24/7 Fuel Polishing Schedule.
- Uses A Stand-a-lone Pump or One Of The System Pumps (Supply and Return Pumps).
- Stops Fuel Polishing If The System Is In a Call For Fuel.

Power Fill System, Fills up to 1 Main Tank:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Pump Sump Leak Detection Sensor.
- Over Fill Level Mechanical Sensor (OFS).

The BMS Interface:

- System Summary Alarm (1) Dry
- Auto Dialer, SMS or Email for System Alarms and Warnings (optional)
- Modbus Ready for Serial RTU or TCP over IP (optional)
- Tank Level 4-20 mA outputs (optional)

Additional Expectations:

- Customized Flow Schematic and Point to Point Wiring Diagrams.
- Component Drawing Sold with The System.
- Custom Modifications and Configurations Extra Fees).
Conduit and Piping Details; (Extra Fees).
Main and Day Tank Drawing Piping and Layout Details; (Extra Fees).
Site Drawings; (Extra Fees).

This is a List of Example Equipment To Order Along With The CMDR-FOC-FOS System. All Components Are Sold Separately and This List is Not Limited to:

Commander Options:
- CMDR-FOC-FOS-3P, Three Pump Commander Package.
- CMDR-FOC-FOS-4P, Four Pump Commander Package.
- FOC-CWK, Out Door Cold Weather Kits.
- FPS-14, 14 GPM Three Stage Fuel Polishing Filter / Separator Package.

Main Tank Options:
- FOC-MT-ASV, Main Tank Anti-Siphon Supply Valve Assembly.
- FOC-MT-LVL-PKG, Main Tank Leak and Level Package.
- FOC-RLD1, Remote High Level Alarm and Digital Tank Levels.

Day Tank Options:
- FOC-DT-LVL-PKG, Main Tank Leak and Level Package.
- FOC-DT-RP-TM14, Tank Mounted Return Pump Package (14 GPM)
- FOC-CV, Day Tank Supply Valve Assembly.

Boiler Options:
- FOC-BOILER, Visual Flow Indicator, Strainer and Isolation Ball Valve.

Specifications:
- Power requirements: Power input: 230VAC 1 phase with Neutral (others available including 3 phase).
- Enclosure: NEMA 4x, IP66 (suitable for outdoor and high corrosion areas).
- Stainless Steel NEMA 4x (optional)
- UL508A listed and meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2,
groups B, C, D.

More Information
(FOC-DT-LVL-PKG) DAY TANK LEVEL PACKAGE

FOC-DT-LVL-P

(FOC-DT-LVL-PKG) DAYTANK TANK MONITORING PACKAGE. INCLUDES TANK LEVEL PROBE (FUEL OIL / DIESEL ONLY) AND LEAK SENSOR.

TANK LEVEL TRANSMITTER
LP-144

- Low cost
- Solid state semiconductor sensor for accuracy and reliability
- Lightweight and compact size
- Rugged 316 stainless steel housing with excellent environmental protection
- Advanced digital compensation
- Easy to install and use
- Optional temperature measurement capability
- Vented to the atmosphere through the surface end of the cable
- Reverse polarity and surge protected
- 2 wire, 4 to 20 mA output standard; other outputs available

TANK LEAK SENSOR  LK-750-SS

- Stem Material: Stainless Steel
- Float Material: Stainless Steel
- Maximum Temperature (F): 300 F
- PSI @ 70 Degrees F: 800 PSI
- Minimum Liquid Specific Gravity: .7
- Switch Max Wattage Rating at 250V: 50 Watt
- Leads: 24” PVC

More Information
(FOC-MT-LVL-PKG) MAIN TANK LEVEL PACKAGE

FOC-MT-LVL-P

(FOC-MT-LVL-PKG) DAYTANK TANK MONITORING PACKAGE. INCLUDES TANK LEVEL PROBE (FUEL OIL / DIESEL ONLY) AND LEAK SENSOR.

TANK LEVEL TRANSMITTER
LP-144

- Low cost
- Solid state semiconductor sensor for accuracy and reliability
- Lightweight and compact size
- Rugged 316 stainless steel housing with excellent environmental protection
- Advanced digital compensation
- Easy to install and use
- Optional temperature measurement capability
- Vented to the atmosphere through the surface end of the cable
- Reverse polarity and surge protected
- 2 wire, 4 to 20 mA output standard; other outputs available

TANK LEAK SENSOR  LK-750-SS

- Stem Material: Stainless Steel
- Float Material: Stainless Steel
- Maximum Temperature (F): 300 F
- PSI @ 70 Degrees F: 800 PSI
- Minimum Liquid Specific Gravity: .7
- Switch Max Wattage Rating at 250V: 50 Watt
- Leads: 24” PVC

More Information
(RA1-120) REMOTE ALARM, SINGLE POINT 120VAC

RA1-120

REMOTE SINGLE POINT (EXAMPLE HIGH LEVEL) ALARM WITH STROBE, 100DB ALARM AND ACKNOWLEDGEMENT SWITCH.

THIS SINGLE POINT REMOTE ALARM CAN BE USED FOR MANY PURPOSES:

· TANK HIGH ALARM LEVEL
· TANK HIGH WARNING LEVEL
· TANK LOW WARNING LEVEL
· TANK LOW ALARM LEVEL
· TANK LEAK ALARM
· EMERGENCY STOP DEVICE ACTIVATED
· ANY REMOTE SIGNAL MONITORING

SPECIFICATIONS:

· 120VAC POWER
· NEMA 4X ENCLOSURE
· UL508A LISTED
· RATED FOR CLASS 2 LOCATIONS

AVAILABLE OPTIONS:

· 24VDC
· ADDITIONAL SIGNAL POINTS
· STAINLESS STEEL ENCLOSURE/
· EXPLOSION PROOF ENCLOSURE
· INTRINSICALLY SAFE BARRIERS

More Information
(RA1-24) REMOTE ALARM, SINGLE POINT 24VDC

REMOTE SINGLE POINT (EXAMPLE HIGH LEVEL) ALARM WITH STROBE, 100DB ALARM AND
ACKNOWLEDGEMENT SWITCH.

THIS SINGLE POINT REMOTE ALARM CAN BE USED FOR MANY PURPOSES:

- TANK HIGH ALARM LEVEL
- TANK HIGH WARNING LEVEL
- TANK LOW WARNING LEVEL
- TANK LOW ALARM LEVEL
- TANK LEAK ALARM
- EMERGENCY STOP DEVICE ACTIVATED
- ANY REMOTE SIGNAL MONITORING

SPECIFICATIONS:

- 24VDC POWER
- NEMA 4X ENCLOSURE
- UL508A LISTED
- RATED FOR CLASS 2 LOCATIONS

AVAILABLE OPTIONS:

- 120VAC
- ADDITIONAL SIGNAL POINTS
- STAINLESS STEEL ENCLOSURE/
- EXPLOSION PROOF ENCLOSURE
- INTRINSICALLY SAFE BARRIERS

More Information
EQUIPMENT BY NAME -/- CMDR-ASC (Auto Stick)

(CMDR-ASC) COMMANDER AUTO STICK CONTROLLER

ASC-120

The Auto Stick Controller is used to monitor tanks for leak and levels and provide pump controls based on up to six programmable level set points. The Auto Stick Controller (ASC) is commonly used on day tanks and generator belly sub tanks to maintain a critical level of fuel making sure the generator or boiler has the sufficient amount of fuel. The ASC utilizes leaks sensors to monitor the tanks for leaks in double wall or dike tanks applications. The ASC also incorporates a second leak sensor for a tank sump or piping sump. The ASC monitors the tank level and controls up the three 1hp single phase pumps. The pumps are typically a simplex or duplex delivery pumps and or return to main tank pumps.

The ASC has four programmable to display and control pumps and level alarms.
The ASC is a powerful compact controller utilizing state of the art equipment and technologies. The ASC is capable of integrating with your building management system via serial or Ethernet communications using the Modbus protocol.

Typical Display Data:

The Day / Belly Tank, Includes (1) Level Probe and (1) Leak Sensor:

- Product Level in 1/4 Inches.
- High Level Alarm Status (programable level).
- Pump Stop Level (programable level).
- Normal Product Level.
- Pump start Level (programable level).
- Low Level Alarm Status (programable level).
- Interstitial (Double Wall) Leak Sensor Status.
- Pump Run Status.
- Present and Historical Alarm Conditions.

The Pump Controls:

The Auto Stick Controller has connections for:

Inputs:

- 24VDC for up to one 4-20mA continuous level transmitter
- two leak sensors
- one overfill sensor

Outputs for:

- one anti-siphon valve assembly
- one day tank supply valve assembly
- up to three 1ph 115/230 VAC pump motors

Input power:

- 115VAC or 230VAC 30amp with neutral and ground

Output power:

- 24VDC for level probes and sensors
- 115VAC or 230VAC for pumps and valves

Typical Ordering Components:

Controller Options:

- CMDR-ASC-120-0P (120VAC input power, two run output relays only)
- CMDR-ASC-120-1P (120VAC input power, one pump motor starter)
- CMDR-ASC-120-2P (120VAC input power, two pump motor starters)
- CMDR-ASC-230-1P (230VAC input power, one pump motor starter)
- CMDR-ASC-230-2P (230VAC input power, two pump motor starters)
- CMDR-ASC-RA1 (100DB Horn and Strobe Option) (Shown in Photo Sold Separately)

Level Probe Options: Form 4 inch tank to 60 inch tank at 4 inch intervals.

- ASC-LVL-04-CAM (4 inch tanks w/ mounting adapter)
- ASC-LVL-08-CAM (8 inch tanks w/ mounting adapter)
- ASC-LVL-12-CAM (12 inch tanks w/ mounting adapter)
- ASC-LVL-16-CAM (16 inch tanks w/ mounting adapter)
- Up to ASC-LVL-60-CAM (60 inch tanks w/ mounting adapter)
- FOC-SUMP-LK (standard leak sensor for double wall tanks and sumps)

Specifications:

- UL508A listed
- NEMA 4x IP66 enclosure.
- Suitable for class 2, division 2, class B, C, D environments

More Information
EQUIPMENT BY NAME - CMDR-AVI (Aviation)

(CMDR-AVI) COMMANDER AVIATION CONTROLLER
CMDR-AVI-JET
Commander AVI Jet A, Aviation Fuel Tank Site Controller. This Aviation Fuel Tank Controller is the ultimate in SMART aviation controls. The Commander is all you will ever need for controlling your complete aviation fueling system. Single incoming power source makes installation a snap. Leave the engineering to us.
The Commander Modes of Operations are:

- Main Tank Delivery
- Dispensing Under Wing
- Dispensing Over Wing (optional)
- Filtration / Circulation manual filtration re-circulation (auto option available)

Key features are: (sensing devices sold separately)

- Main tank high level warning
- Pump shutdown  Main tank high level alarm
- Pump lockout  Main tank low level warning (optional)
- Delivery needed warning  Main tank low level alarm (optional) keeps pump from running dry
- Main tank interstitial leak monitoring
- Main tank overfill protection
- Main tank digital gallons (optional)
- Deadman controls (wired or wireless option)
- Tank anti-siphon system (solenoid controlled)
- Filter water alarm (water slug protection)
- Filter differential pressure high alarm (optional)
- Pump / dispenser enclosure leak alarm(s)
- Pump motor starter with overload protection
- Enclosure Area Light Controls (optional)
- Integrated emergency stop controls (local and remote integration)
- Integrates with fire suppression system
- Audible and visual alarms indicators with alarm acknowledgment
- Keyed switch manual alarm bypass mode
- Programmable Logic Controlled with backup battery
- Integration with BMS systems (modbus) (optional) 4-20mA and digital
- Power line surge protection/conditioner
- AutoCAD PDF drawings for easy simple installation.

Leave the engineering to us  Installs adjacent to your fuel tank and / or pump and dispensing system
Remote (optional) start stop and emergency stop controls for remote dispensers
Specifications:

- Nema 4x 24x24 enclosure, UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.
· Suitable for class 2, division 2, groups, NEMA 7 AVAILABLE

More Information
AVIATION FUELING SYSTEMS

JET-A SKID

WE MANUFACTURE AVIATION FUEL SYSTEMS.

DEDICATED TO PROVIDING CUSTOMER SATISFACTION THROUGH SUPERIOR QUALITY AND SERVICE, OUR WELDING SHOP PROVIDES EXCEPTIONAL ALUMINUM WELDING, STAINLESS STEEL WELDING, COPPER WELDING AND GENERAL WELDING.

ADDITIONALLY, WE OFFER ASSEMBLY, ENGINEERING, ELECTRICAL AND CONTROL SERVICES, AND MORE. WE HANDLE ALL SIZE JOBS, AND CONTINUE TO OFFER THE INDUSTRY’S BEST SERVICES.

A TYPICAL JOB FLOW CONSIST OF BUT ARE NOT LIMITED TO THE FOLLOWING:

- PRE-ENGINEERING AND DESIGN SERVICES
- SITE AND EQUIPMENT DRAWINGS FOR PERMITTING AND APPROVALS
- EQUIPMENT SUBMITTALS FINAL APPROVAL DRAWINGS FOR TANKS, PUMP SKIDS AND ELECTRICAL CONTROLS
- ORDER PROCESS AND FABRICATION DRAWINGS
- EQUIPMENT FABRICATION OF THE SKIDS AND CONTROLS
- SHOP FINAL TESTING TRIM THE TANKS AND ATTACHED THE SKIDS TO THE TANKS
- FINAL HOOKUPS OF ALL PIPING AND ELECTRICAL CONNECTIONS
- FINAL TESTING OF PLUMBING AND CONTROLS
- SHOP FUNCTION TESTING OF COMPLETED READY TO SHIP PROJECT
- DISASSEMBLY FOR SHIPPING AND PACKAGING SHIPPING TO THE SITE
- OFFLOADING BY OTHERS ON SITE AND EQUIPMENT INSPECTION
- RETESTING OF PLUMBING ON SITE BY US OR OTHERS
- RE-ASSEMBLY BY US OR OTHERS FINAL TESTING ELECTRICAL AND PLUMBING
- FINAL FUNCTIONAL TESTING AND STARTUP ON SITE (WARRANTY STARTS)
- CUSTOMER TRAINING
- YEARS OF A FUNCTIONAL SYSTEM WITH ANNUAL INSPECTIONS.

TYPICAL COMPONENTS CONSIST OF THE FOLLOWING EQUIPMENT BUT IS NOT LIMITED TO:

- TANK: UL-142, OVERFILL VALVE, CLOCK GAUGE WITH ALARM, EMERGENCY VENT, PRESSURE VACUUM VENT, INTERSTITIAL LEAK DETECTION GAUGE, FILL PIPING WITH CHECK VALVE, BUTTERFLY VALVE 3” CAM-LOCK ADAPTER, VAPOR RECOVERY ADAPTOR, AND HAND PUMP DISPENSING SYSTEM: ELECTRONIC PUMP MOTOR, DEADMAN, FILTRATION, CALIBRABLE METERS, HOSES, NOZZLES, AND MORE. TANKS AND PUMPING SYSTEMS ARE INDEPENDENT. ANY COMPATIBLE PUMPING SYSTEM CAN BE MATCHED WITH ANY TANK SIZE.

JET-A SKID 100-300 GPM
- Recirculation / Water Separation / Fuel Polishing.
- Under Wing / Center Point / Over-Wing.
- Fueling Bottom of Tank Sampling System Through the Pump.
- Recapture Sampled Fuel System Back to Tank.
- Remote Dispensing Options Available.
- Tank Level and Leak Detection.
- Single Point Electrical Installation.
- All Stainless Steel Piping.
- Meets and Exceeds UL and NFPA Codes and Regulations for Its Intended Use.
EQUIPMENT BY NAME -/- CMDR-LLM (Day/Main Tank)

(CMDR-LLM) COMMANDER LIQUID LEVEL MONITOR

CMDR-LLM

The Smart Controller ~ Multi-Function Controller

One systems for the entire facility monitoring and controlling your complete fueling systems. LLM (Liquid Level Monitor system monitors tank levels and supplies pump controls for automatic fuel transfers for applications requiring day tanks and institutional boilers. The Smart Controls intelligently integrates the components of the fueling system in to one simple automated package. Superior quality components insure years of trouble free service. It's a turn-key system that providing one call for service and support for the entire system if required. We are the leader in the industry in mission critical and non-mission critical automated fueling systems.

The LLM is used for one of the following applications:

- Main Tank Level Monitor
- Day Tank Automatic Fill and Return Pump System
- Boiler Feed Controls
- Duplex Pump Controller
- Leak Detection System

The Main Storage Tank, Monitors up to 1 Main Tank:

- Product Level Monitored by Floats.
- High Level Alarm Status.
- Normal Product Level.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Anti-siphon Supply Valve

Day Tanks, Monitors up to; 1 Day Tank:

- Product Level Monitored by Floats.
- High Level Alarm Status.
- Normal Product Level.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Day Tank Supply Control Fill Valve
The Boilers, Communicated up to 4 Boilers:

- Anti-siphon Supply Valve
- Piping Sump Leak Sensor.

The Pump(s):

- Supplies Output Signal for Lead / Lag Supply Pumps (option).
- Supplies Output Signal for Day / Belly Tank Return Pumps (option).
- Keyed Override Switch (Direct to Pump Output)
- Pump Run Status.

Additional Expectations:

- Point to Point Wiring Diagrams.
- Component Drawing Sold with The System.
- Custom Modifications and Configurations Extra Fees).
- Flow Schematic Details; (Extra Fees).
- Conduit and Piping Details; (Extra Fees).
- Main and Day Tank Drawing Piping and Layout Details; (Extra Fees).
- Site Drawings; (Extra Fees).

This is a List of Example Equipment to Order Along with The LLM System. All Components Are Sold Separately and This List is Not Limited to:

Commander Options:

- CMDR-LLM-0P, No Pump Output Package.
- CMDR-LLM-1P, One Pump Output Package.

Main Tank Options:

- FOC-MT-ASV, Main Tank Anti-Siphon Supply Valve Assembly.
- LLM-MT-LVL-PKG, Main Tank Leak and Level Package.

Day Tank Options:
- LLM-DT-LVL-PKG, Main Tank Leak and Level Package.
- FOC-CV, Day Tank Supply Valve Assembly.

Boiler Options:

- FOC-BOILER, Visual Flow Indicator, Strainer and Isolation Ball Valve.

Specifications:

- Power requirements: Power input: 115VAC 1 phase (others available).
- Enclosure: NEMA 4x, IP66 (suitable for outdoor and high corrosion areas).
- Stainless Steel NEMA 4x (optional)
- UL508A listed and meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

Joe@petropanels.com for more information.

More Information
EQUIPMENT BY NAME -/- ATG-ENC (Tank Gauge Enclosure)

ATG-ENC-OEL8000-2-H
ATG-ENC-OEL8
ATG-ENC-OEL8000-2-H
FOR OMNTEC OEL8000 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE OEL 8000 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE.
THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

- NEMA 4X 24*24*8 SS304 ENCLOSURE
- MODIFIED BACK PANEL ENCLOSURE
- INTEGRATED WINDOW KIT
- 80 W HEATER AND THERMOSTAT
- PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

- NEMA 4X STAINLESS STEEL 304
- SUITABLE FOR OUTDOOR USE
- SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
- SUITABLE FOR HIGH CORROSION AREAS
- SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-OEL8000-2-HL

FOR OMNTEC OEL8000 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE OEL 8000 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE. AN INTERNAL LIGHT AND DOOR SWITCH IS ALSO INSTALLED TO ENSURE 24/7 OPERATIONS.

THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

- NEMA 4X 24*24*8 SS304 ENCLOSURE
- MODIFIED BACK PANEL ENCLOSURE
- INTEGRATED WINDOW KIT
- 80 W HEATER AND THERMOSTAT
- INTERNAL LIGHT WITH DOOR SWITCH
- PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

- NEMA 4X STAINLESS STEEL 304
- SUITABLE FOR OUTDOOR USE
- SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
- SUITABLE FOR HIGH CORROSION AREAS
- SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-VR-300-H
ATG-ENC-VR-3
ATG-ENC-OEL8000-2-H
FOR VEEDEER-ROOT TLS 300 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE VEEDEER-ROOT TLS300 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE.
THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

· NEMA 4X 24*24*8 SS304 ENCLOSURE
· MODIFIED BACK PANEL ENCLOSURE
· INTEGRATED WINDOW KIT
· 80 W HEATER AND THERMOSTAT
· PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

· NEMA 4X STAINLESS STEEL 304
· SUITABLE FOR OUTDOOR USE
· SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
· SUITABLE FOR HIGH CORROSION AREAS
· SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-VR-300-HL
ATG-ENC-VR-3
ATG-ENC-VR-300-HL
FORVEEDER-ROOT TLS300NEMA 4X STAINLESS STEEL ENCLOSURE.

THE VEEDEER-ROOT TLS300 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE. AN INTERNAL LIGHT AND DOOR SWITCH IS ALSO INSTALLED TO ENSURE 24/7 OPERATIONS. THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

· NEMA 4X 24*24*8 SS304 ENCLOSURE
· MODIFIED BACK PANEL ENCLOSURE
· INTEGRATED WINDOW KIT
· 80 W HEATER AND THERMOSTAT
· INTERNAL LIGHT WITH DOOR SWITCH
· PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

· NEMA 4X STAINLESS STEEL 304
· SUITABLE FOR OUTDOOR USE
· SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
· SUITABLE FOR HIGH CORROSION AREAS
· SUITABLE FOR COLD WEATHER LOCATIONS

More Information
The Smart Fuel Polishing System (FPS-XX-E) is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-14) is fully automated with remote monitoring capabilities. Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration / Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for filtration / polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-V is designed to handle main storage tanks and belly/daytanks.

System Benefits:

- Heavy Duty Pump Package
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation.
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor
Operating status and alarms:

- Stage 1 - (40 mesh) Strainer needs cleaning alarm.
- Stage 2 - (25 micron) Filter needs cleaning alarm.
- Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
- Motor Overload.
- Pump Failer.
- Enclosure liquid alarm.
- Maintenance needed warming (Filters need changing)

The BMS:

- System Summary Alarm (1) Dry
- RS232 Standard, (Ethernet optional)
- Modbus

Specifications:

- Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
- Flow Rates, FPS-02-E (GPM), FPS-04-E (4 GPM), FPS-07-E (7 GPM), FPS-10-E (10 GPM) FPS-14-E (14 GPM)
- Max PSI IS 25 (About 25 Feet of Head)(Others Available)
- Enclosure: Nema 4 (suitable for outdoor).
- Controls UL508A listed
- Meets NEC (NPFA70) and NFPA 30.37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

- Add a 1/2" tee and an automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL

More Information
The Smart Fuel Polishing System (FPS-14-XX-UL) uses an UL-343 listed pump and motor. The system is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-XX-UL) is fully automated with remote monitoring capabilities.

Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration / Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for Filtration / Polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-UL is designed to handle main storage tanks and belly/day tanks.

System Benefits:

- UL-343 Listed Pump and Motor (NYC Ready)
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation.
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor
Operating status and alarms:

- Stage 1 - (40 mesh) Strainer needs cleaning alarm.
- Stage 2 - (25 micron) Filter needs cleaning alarm.
- Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
- Motor Overload.
- Pump Failure.
- Enclosure liquid alarm.
- Maintenance needed warming (Filters need changing)

The BMS:

- System Summary Alarm (1) Dry
- RS232 Standard, (Ethernet optional)
- Modbus

Specifications:

- UL-343 Listed Viking Pump and Motor
- Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
- Flow Rates: FPS-04-UL (4 gpm), FPS-07-UL (7 GPM), FPS-10-UL (10 GPM) FPS-14-UL (14 GPM)
- Max PSI IS 25 (About 25 Feet of Head)(Others Available)
- Enclosure: Nema 4 (suitable for outdoor).
- Controls UL508A listed
- Meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

- Add a 1/2” tee and an automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL

More Information
FPS-XX-V FUEL POLISHING SYSTEM (UP TO 14GPM) (VIKING PUMPS)

FPS-XX-V

The Smart Fuel Polishing System (FPS-XX-V) is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-14) is fully automated with remote monitoring capabilities. Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration / Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for Filtration / Polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-V is designed to handle main storage tanks and belly/daytanks.

System Benefits:

- Viking Pump Package
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation.
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor

Operating status and alarms:
· Stage 1 - (40 mesh) Strainer needs cleaning alarm.
· Stage 2 - (25 micron) Filter needs cleaning alarm.
· Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
· Motor Overload.
· Pump Failer.
· Enclosure liquid alarm.
· Maintenance needed warming (Filters need changing)

The BMS:

· System Summary Alarm (1) Dry
· RS232 Standard, (Ethernet optional)
· Modbus

Specifications:

· Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
· Flow Rates, FPS-07-V (7 GPM), FPS-10-V (10 GPM) FPS-14-V (14 GPM)
· Max PSI IS 25 (About 25 Feet of Head)(Others Available)
· Enclosure: Nema 4 (suitable for outdoor).
· Controls UL508A listed
· Meets NEC (NPFA70) and NFPA 30-37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

· Add a 1/2" tee and an automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL

More Information
Fuel System Controls - SiteController 2 - Duplex Power Distribution, Dispenser / Submersible SiteController -
The SiteController Fuel System Controls is an upgraded SiteManager that includes provisions for a power fill
pump or an external off loading pump along with the submersible pump. Not only is the SiteController a power
distribution and a motor control panel with e-stop controls, it also has a pump start and stop buttons surface
mounted on the out site of the enclosure for your power fill pump. The SiteController is all you need to control the
complete operations of the fuel system and designed to integrate will all fuel components. The SiteController is
pre-wired and installs like a sub panel adjacent to our tank and dispensing area.
Standard features are:

- Single input power connections with main power disconnect.
- NEMA 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- Dedicated dispenser control and anti-siphon circuit.
- Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated power fill or external pump control and overload protection circuit with Start and Stop.
- Controls up to (7.5 hp max) motors.
- (2) Pump run indicator LED lights.
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit. Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Select from the list of voltages.
- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit. Specifications:

Standard NEMA 4x Enclosure NEMA 7 AVAILABLE. UL 508A listed and meets NEC (NPFA70) and NFPA
30A requirements. Suitable for class 2, division 2, locations
- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped circuits break all power and neutrals circuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls. Intergrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/flag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
  - * Leak and Level Devices
  - * Flow Indicators and Sensors
  - * Motor Starters and Overloads
  - * Water and Pressure Switches
  - * Pump Motors and Valves
- Integrates with the Building Management System (BMS)
· Utilizes Three Modes of Operations:
  · * Fully Automatic Mode
  · * Supervise the Manual Mode
  · * Emergency Manual Mode.
  · Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

· Automatic Polished Fuel
· Product Level In US Gallons.
· Product Level In Inches.
· Product Level In Percent Of Full Tank Capacity.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Low Level Warnings.
· Low Level Alarms.
· Optional Remote Fill Station Enunciation.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak Detection Sensors.
· Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

· Automatic Polished Fuel.
· Monitoring the Volume of the Day Tanks.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Normal Product Levels. (Maintained by Integrated Pump Controls)
· Low Level Warnings.
· Low Level Alarms.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak Detection Sensors.
· Integrates with Mechanical Overfill Valves.
· Pre-assembled Valve Box Enclosure integrates with:
  · * Flow Switch
  · * Visual Flow Indicator
  · * Critical Mission Fuel Supply Solenoid Valve
  · * Pressure Gauge
  · * Lockable Manual Bypass Valve
  · * Equipment Strainer
· Pre-assembled Return Pump System In Enclosure.
· Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly
Multiple Commercial Boiler Systems:

- Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

- Automatic pump alternation sequencing.
- Lead Lag Pump Controls. (MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as
Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.

- Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.
- The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
- The System Reports All Conditions Back to the Building Management System.
- The System Is Purchased and Maintained by a Single Source.
- Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

- All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
- All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
- All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
- Available in Single Phase or Three-Phase (50 or 60 Hz)
- Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls.

Integrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen

- Monitors and Controls All System Components.
- * Leak and Level Devices
- * Flow Indicators and Sensors
- * Motor Starters and Overloads
- * Water and Pressure Switches
- * Pump Motors and Valves

- Integrates with the Building Management System (BMS)
- Utilizes Three Modes of Operations:
  - * Fully Automatic Mode
  - * Supervise the Manual Mode
· Emergency Manual Mode.
· Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

· Automatic Polished Fuel
· Product Level In US Gallons.
· Product Level In Inches.
· Product Level In Percent Of Full Tank Capacity.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Low Level Warnings.
· Low Level Alarms.
· Optional Remote Fill Station Enunciation.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak Detection Sensors.
· Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

· Automatic Polished Fuel.
· Monitoring the Volume of the Day Tanks.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Normal Product Levels. (Maintained by Integrated Pump Controls)
· Low Level Warnings.
· Low Level Alarms.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak Detection Sensors.
· Integrates with Mechanical Overfill Valves.
· Pre-assembled Valve Box Enclosure integrates with:
  · * Flow Switch
  · * Visual Flow Indicator
  · * Critical Mission Fuel Supply Solenoid Valve
  · * Pressure Gauge
  · * Lockable Manual Bypass Valve
  · * Equipment Strainer
· Pre-assembled Return Pump System In Enclosure.
· Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly

Multiple Commercial Boiler Systems:

· Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

- Automatic pump alternation sequencing.
- Lead Lag Pump Controls.(MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.
- Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main
Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.
· The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
· The System Reports All Conditions Back to the Building Management System.
· The System Is Purchased and Maintained by a Single Source.
· Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

· All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
· All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
· All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
· Available in Single Phase or Three-Phase (50 or 60 Hz)
· Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
(CMDR-FOC-FOS) COMMANDER FUEL OIL CONTROLLER "Multi-Function"

CMDR-FOC-FOS

The Smart Controller ~ Multi-Function Controller

One systems for the entire facility monitoring and controlling your complete fueling systems. Commander Fuel Oil Controller system monitors tank levels and supplies pump controls for automatic fuel transfers for applications requiring day tanks and institutional boilers. The Smart Controls intelligently integrates all the components of the fueling system into one simple automated package. Superior quality components insure years of trouble-free service. It's a turn-key system that providing one call for service and support for the entire system if required. We are the leader in the industry in mission critical and non-mission critical automated fueling systems.

Integrates the following into one systems:

- Main Tank Level Monitor
- Day Tank Automatic Fill and Return Pump System
- Boiler Feed Controls
- Duplex Pump Controller
- Fuel Polishing System
- Power Fill System (PTO)
- Leak Detection System

The Main Storage Tank, Monitors up to 1 Main Tank:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Main Tank Fuel Polishing (optional)
- Present and Historical Alarm Conditions.
- Remote Fill Station Enunciator (optional).
- Anti-siphon Supply valve with Mechanical Bypass (standard)
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
Day Tanks, Monitors up to 2 Day Tanks:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- Pump Fill Stop Status.
- Pump Fill Start Status.
- Return Pump Start Status.
- Return Pump Stop Status.
- Low Level Alarm Status.
- Over Fill Level Mechanical Sensor (OFS).
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Leak Sensor.
- Present and Historical Alarm Conditions.
- Optional Remote Fill Station Enunciator.
- High Level Overfill Safety Solenoid Valve Relay Driven from The (OFS).
- Day Tank Supply Fill Valve with Mechanical Bypass (standard).
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
- 10 GPM Flow Restrictor.
- Remote Day Tank High Level Enunciator (optional).

The Boilers, Communicated up to 8 Boilers:

- Monitors a Boiler Feed Pressure Switch (optional).
- Controls boiler feed control valves (optional).
- Supplies Present and Historical Alarm Conditions.
- Piping Sump Leak Sensor.
- Day Tank Supply Fill Valve with Mechanical Bypass (optional).
- Visual Flow Indicator, Strainer and Isolation Ball Valve (optional).
- End Loop Back Pressure Regulator (optional).

The Pump(s) Simplex or Duplex:

- Works with Either Submersible or Positive Displacement (PD) Pumps.
- Lead / Lag Supply Pumps (option).
- Day / Belly Tank Return Pumps (option).
- Fuel Polishing Pump (option).
- Power Fill PTO Pump (option).
- Pump Run Status.
- Pump Overload Status.
The Filtration/Fuel Polishing System:

- Monitors up to 3 Stages of Filtration and Strainers
- Polishes Effectively to 1 Micron (2 Micron is Standard)
- Monitors Filter Differential Pressure.
- Monitors the Filter Water Separator for Water.
- Programmable 24/7 Fuel Polishing Schedule.
- Uses A Stand-alone Pump or One Of The System Pumps (Supply and Return Pumps).
- Stops Fuel Polishing If The System Is In a Call For Fuel.

Power Fill System, Fills up to 1 Main Tank:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Pump Sump Leak Detection Sensor.
- Over Fill Level Mechanical Sensor (OFS).

The BMS Interface:

- System Summary Alarm (1) Dry
- Auto Dialer, SMS or Email for System Alarms and Warnings (optional)
- Modbus Ready for Serial RTU or TCP over IP (optional)
- Tank Level 4-20 mA outputs (optional)

Additional Expectations:

- Customized Flow Schematic and Point to Point Wiring Diagrams.
- Component Drawing Sold with The System.
- Custom Modifications and Configurations Extra Fees).
· Conduit and Piping Details; (Extra Fees).
· Main and Day Tank Drawing Piping and Layout Details; (Extra Fees).
· Site Drawings; (Extra Fees).

This is a List of Example Equipment To Order Along With The CMDR-FOC-FOS System. All Components Are Sold Separately and This List is Not Limited to:

Commander Options:

· CMDR-FOC-FOS-2P, Two Pump Commander Package.
· CMDR-FOC-FOS-3P, Three Pump Commander Package.
· CMDR-FOC-FOS-4P, Four Pump Commander Package.
· CMDR-FOC-FOS-5P, Five Pump Commander Package.
· FOC-CWK, Out Door Cold Weather Kits.
· FOC-REC, Single Stage Fuel Polishing Filter / Separator Package.
· FPS-14, 14 GPM Three Stage Fuel Polishing Filter / Separator Package.

Main Tank Options:

· CMDR-FOC-FOS-5P, Five Pump Commander Package.
· FOC-MT-ASV, Main Tank Anti-Siphon Supply Valve Assembly.
· FOC-MT-LVL-PKG, Main Tank Leak and Level Package.
· FOC-RLD1, Remote High Level Alarm and Digital Tank Levels.

Day Tank Options:

· FOC-DT-LVL-PKG, Main Tank Leak and Level Package.
· FOC-DT-RP-TM14, Tank Mounted Return Pump Package (14 GPM)
· FOC-CV, Day Tank Supply Valve Assembly.

Boiler Options:

· FOC-BOILER, Visual Flow Indicator, Strainer and Isolation Ball Valve.

Specifications:

· Power requirements: Power input: 230VAC 1 phase with Neutral (others available including 3 phase).
· Enclosure: NEMA 4x, IP66 (suitable for outdoor and high corrosion areas).
· Stainless Steel NEMA 4x (optional)
· UL508A listed and meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2,
groups B, C, D.

More Information
The Smart Controller ~ Multi-Function Controller

One systems for the entire facility monitoring and controlling your complete fueling systems. CMDR-LLM (Liquid Level Monitor system monitors tank levels and supplies pump controls for automatic fuel transfers for applications requiring day tanks and institutional boilers. The Smart Controls intelligently integrates the components of the fueling system in to one simple automated package. Superior quality components insure years of trouble free service. It's a turn-key system that providing one call for service and support for the entire system if required. We are the leader in the industry in mission critical and non-mission critical automated fueling systems.

The LLM is used for one of the following applications:

- Main Tank Level Monitor
- Day Tank Automatic Fill and Return Pump System
- Boiler Feed Controls
- Duplex Pump Controller
- Leak Detection System

The Main Storage Tank, Monitors up to 1 Main Tank:

- Product Level Monitored by Floats.
- High Level Alarm Status.
- Normal Product Level.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Anti-siphon Supply Valve

Day Tanks, Monitors up to; 1 Day Tank:

- Product Level Monitored by Floats.
- High Level Alarm Status.
- Normal Product Level.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Day Tank Supply Control Fill Valve

The Boilers, Communicated up to 4 Boilers:
· Anti-siphon Supply Valve
· Piping Sump Leak Sensor.

The Pump(s):

· Supplies Output Signal for Lead / Lag Supply Pumps (option).
· Supplies Output Signal for Day / Belly Tank Return Pumps (option).
· Keyed Override Switch (Direct to Pump Output)
· Pump Run Status.

Additional Expectations:

· Point to Point Wiring Diagrams.
· Component Drawing Sold with The System.
· Custom Modifications and Configurations Extra Fees).
· Flow Schematic Details; (Extra Fees).
· Conduit and Piping Details; (Extra Fees).
· Main and Day Tank Drawing Piping and Layout Details; (Extra Fees).
· Site Drawings; (Extra Fees).

This is a List of Example Equipment to Order Along with The LLM System. All Components Are Sold Separately and This List is Not Limited to:

Commander Options:

· CMDR-LLM-0P, No Pump Output Package.
· CMDR-LLM-1P, One Pump Output Package.
· CMDR-LLM-2P, Two Pump Output Package (One Supply and One Return Pump).

Main Tank Options:

· FOC-MT-ASV, Main Tank Anti-Siphon Supply Valve Assembly.
· LLM-MT-LVL-PKG, Main Tank Leak and Level Package.

Day Tank Options:

· LLM-DT-LVL-PKG, Main Tank Leak and Level Package.
· FOC-CV, Day Tank Supply Valve Assembly.
Boiler Options:

- FOC-BOILER, Visual Flow Indicator, Strainer and Isolation Ball Valve.

Specifications:

- Power requirements: Power input: 115VAC 1 phase (others available).
- Enclosure: NEMA 4x, IP66 (suitable for outdoor and high corrosion areas).
- Stainless Steel NEMA 4x (optional)
- UL508A listed and meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

Joe@petropanels.com for more information.
CMDR-AVI-JET
Commander AVI Jet A, Aviation Fuel Tank Site Controller. This Aviation Fuel Tank Controller is the ultimate in SMART aviation controls. The Commander is all you will ever need for controlling your complete aviation fueling system. Single incoming power source makes installation a snap. Leave the engineering to us.

The Commander Modes of Operations are:

- Main Tank Delivery
- Dispensing Under Wing
- Dispensing Over Wing (optional)
- Filtration / Circulation manual filtration re-circulation (auto option available)

Key features are: (sensing devices sold separately)

- Main tank high level warning
- Main tank low level alarm (optional)
- Pump shutdown
- Pump lockout
- Delivery needed warning
- Main tank overfill protection
- Main tank digital gallons (optional)
- Deadman controls (wired or wireless option)
- Tank anti-siphon system (solenoid controlled)
- Filter water alarm (water slug protection)
- Filter differential pressure high alarm (optional)
- Pump / dispenser enclosure leak alarm(s)
- Pump motor starter with overload protection
- Enclosure Area Light Controls (optional)
- Integrated emergency stop controls (local and remote integration)
- Integrates with fire suppression system
- Audible and visual alarms indicators with alarm acknowledgment
- Keyed switch manual alarm bypass mode
- Programmable Logic Controlled with backup battery
- Integration with BMS systems (modbus) (optional) 4-20mA and digital
- Power line surge protection/conditioner
- AutoCAD PDF drawings for easy simple installation.

Leave the engineering to us Installs adjacent to your fuel tank and / or pump and dispensing system
Remote (optional) start stop and emergency stop controls for remote dispensers

Specifications:

- Nema 4x 24x24 enclosure, UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.
Suitable for class 2, division 2, groups, NEMA 7 AVAILABLE

More Information
AUTOCAD SERVICES

CAD

Do you have a project and you need some engineering completed? Need a CAD Designer or just someone to CAD project to impress your clients or meet the project specification. How about an installation drawing or an as built. Well you have come to the right place. Request a quote today or call 315-403-9985 and as for engineering.

Let's take it to the next step. Go for CAD to Construction. We are here to assist with that too. Having just about 30 years in the industry no job is too big or too small. Request a quote today or call 315-403-9985 and ask for engineering.

More Information
WE MANUFACTURE AVIATION FUEL SYSTEMS.

DEDICATED TO PROVIDING CUSTOMER SATISFACTION THROUGH SUPERIOR QUALITY AND SERVICE, OUR WELDING SHOP PROVIDES EXCEPTIONAL ALUMINUM WELDING, STAINLESS STEEL WELDING, COPPER WELDING AND GENERAL WELDING.

ADDITIONALLY, WE OFFER ASSEMBLY, ENGINEERING, ELECTRICAL AND CONTROL SERVICES, AND MORE. WE HANDLE ALL SIZE JOBS, AND CONTINUE TO OFFER THE INDUSTRY’S BEST SERVICES.

A TYPICAL JOB FLOW CONSIST OF BUT ARE NOT LIMITED TO THE FOLLOWING:

- PRE-ENGINEERING AND DESIGN SERVICES
- SITE AND EQUIPMENT DRAWINGS FOR PERMITTING AND APPROVALS
- EQUIPMENT SUBMITTALS FINAL APPROVAL DRAWINGS FOR TANKS, PUMP SKIDS AND ELECTRICAL CONTROLS
- ORDER PROCESS AND FABRICATION DRAWINGS
- EQUIPMENT FABRICATION OF THE SKIDS AND CONTROLS
- SHOP FINIAL TESTING TRIM THE TANKS AND ATTACHED THE SKIDS TO THE TANKS
- FINIAL HOOKUPS OF ALL PIPING AND ELECTRICAL CONNECTIONS
- FINIAL TESTING OF PLUMBING AND CONTROLS
- SHOP FUNCTION TESTING OF COMPLETED READY TO SHIP PROJECT
- DISASSEMBLY FOR SHIPPING AND PACKAGING SHIPPING TO THE SITE
- OFFLOADING BY OTHERS ON SITE AND EQUIPMENT INSPECTION
- RETESTING OF PLUMBING ON SITE BY US OR OTHERS
- RE-ASSEMBLY BY US OR OTHERS FINIAL TESTING ELECTRICAL AND PLUMBING
- FINIAL FUNCTIONAL TESTING AND STARTUP ON SITE (WARRANTY STARTS)
- CUSTOMER TRAINING
- YEARS OF A FUNCTIONAL SYSTEM WITH ANNUAL INSPECTIONS.

TYPICAL COMPONENTS CONSIST OF THE FOLLOWING EQUIPMENT BUT IS NOT LIMITED TO:

- TANK: UL-142, OVERFILL VALVE, CLOCK GAUGE WITH ALARM, EMERGENCY VENT, PRESSURE VACUUM VENT, INTERSTITIAL LEAK DETECION GAUGE, FILL PIPING WITH CHECK VALVE, BUTTERFLY VALVE 3” CAM-LOCK ADAPTER, VAPOR RECOVERY ADAPTOR, AND HAND PUMP DISPENSING SYSTEM: ELECTRONIC PUMP MOTOR, DEADMAN, FILTRATION, CALIBRABLE METERS, HOSES, NOZZLES, AND MORE. TANKS AND PUMPING SYSTEMS ARE INDEPENDENT. ANY COMPATIBLE PUMPING SYSTEM CAN BE MATCHED WITH ANY TANK SIZE.

JET-A SKID 100-300 GPM
· RECIRCULATION / WATER SEPARATION / FUEL POLISHING.
· UNDER WING / CENTER POINT / OVER-WING.
· FUELING BOTTOM OF TANK SAMPLING SYSTEM THROUGH THE PUMP.
· RECAPTURE SAMPLED FUEL SYSTEM BACK TO TANK.
· REMOTE DISPENSING OPTIONS AVAILABLE.
· TANK LEVEL AND LEAK DETECTION.
· SINGLE POINT ELECTRICAL INSTALLATION.
· ALL STAINLESS STEEL PIPING.
· MEETS AND EXCEEDS UL AND NFPA CODES AND REGULATIONS FOR ITS INTENDED USE.
CMDR-FOC-FOS

The Smart Controller ~ Multi-Function Controller

One system for the entire facility monitoring and controlling your complete fueling systems.

Commander Fuel Oil Controller system monitors tank levels and supplies pump controls for automatic fuel transfers for applications requiring day tanks and institutional boilers. The Smart Controls intelligently integrates all the components of the fueling system into one simple automated package. Superior quality components insure years of trouble free service. It's a turn-key system that providing one call for service and support for the entire system if required. We are the leader in the industry in mission critical and non-mission critical automated fueling systems.

Integrates the following into one system:

- Main Tank Level Monitor
- Day Tank Automatic Fill and Return Pump System
- Boiler Feed Controls
- Duplex Pump Controller
- Fuel Polishing System
- Power Fill System (PTO)
- Leak Detection System

The Main Storage Tank, Monitors up to 1 Main Tank:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Sensor.
- Main Tank Fuel Polishing (optional)
- Present and Historical Alarm Conditions.
- Remote Fill Station Enunciator (optional).
- Anti-siphon Supply valve with Mechanical Bypass (standard)
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
Day Tanks, Monitors up to 2 Day Tanks:

- All Programmable Level Set Points.
- Product Level in US Gallons.
- Product Level in Inches.
- Product Level in Percent Of Full Tank Capacity.
- High Level Alarm Status.
- Pump Fill Stop Status.
- Pump Fill Start Status.
- Return Pump Start Status.
- Return Pump Stop Status.
- Low Level Alarm Status.
- Over Fill Level Mechanical Sensor (OFS).
- Interstitial (Double Wall) Leak Sensor Status.
- Piping Sump Leak Sensor.
- Present and Historical Alarm Conditions.
- Optional Remote Fill Station Enunciator.
- High Level Overfill Safety Solenoid Valve Relay Driven from The (OFS).
- Day Tank Supply Fill Valve with Mechanical Bypass (standard).
- Visual Flow Indicator, Strainer and Isolation Ball Valve.
- 10 GPM Flow Restrictor.
- Remote Day Tank High Level Enunciator (optional).

The Boilers, Communicated up to 8 Boilers:

- Monitors a Boiler Feed Pressure Switch (optional).
- Controls boiler feed control valves (optional).
- Supplies Present and Historical Alarm Conditions.
- Piping Sump Leak Sensor.
- Day Tank Supply Fill Valve with Mechanical Bypass (optional).
- Visual Flow Indicator, Strainer and Isolation Ball Valve (optional).
- End Loop Back Pressure Regulator (optional).

The Pump(s) Simplex or Duplex:

- Works with Either Submersible or Positive Displacement (PD) Pumps.
- Lead / Lag Supply Pumps (option).
- Day / Belly Tank Return Pumps (option).
- Fuel Polishing Pump (option).
- Power Fill PTO Pump (option).
- Pump Run Status.
- Pump Overload Status.
· Pump Sump Leak Detection Sensor.
· Pump Pressure/Vacuum Sensor (optional).
· Pump Differential Pressure Sensors (optional).
· Variable Speed Motor Drives (optional).

The Filtration/Fuel Polishing System:

· Monitors up to 3 Stages of Filtration and Strainers
· Polishes Effectively to 1 Micron (2 Micron is Standard)
· Monitors Filter Differential Pressure.
· Monitors the Filter Water Separator for Water.
· Programmable 24/7 Fuel Polishing Schedule.
· Uses A Stand-a-lone Pump or One Of The System Pumps (Supply and Return Pumps).
· Stops Fuel Polishing If The System Is In a Call For Fuel.
· Verifies Critical Component (Solenoid Valves and Pumps) Are In Good Working Order By Using Them When Polishing.

Power Fill System, Fills up to 1 Main Tank:

· All Programmable Level Set Points.
· Product Level in US Gallons.
· Product Level in Inches.
· Product Level in Percent of Full Tank Capacity.
· High Level Alarm Status.
· High Level Warning Status.
· Interstitial (Double Wall) Leak Sensor Status.
· Pump Sump Leak Detection Sensor.
· Over Fill Level Mechanical Sensor (OFS).

The BMS Interface:

· System Summary Alarm (1) Dry
· Auto Dialer, SMS or Email for System Alarms and Warnings (optional)
· Modbus Ready for Serial RTU or TCP over IP (optional)
· Tank Level 4-20 mA outputs (optional)

Additional Expectations:

· Customized Flow Schematic and Point to Point Wiring Diagrams.
· Component Drawing Sold with The System.
· Custom Modifications and Configurations Extra Fees).
· Conduit and Piping Details; (Extra Fees).
· Main and Day Tank Drawing Piping and Layout Details; (Extra Fees).
· Site Drawings; (Extra Fees).

This is a List of Example Equipment To Order Along With The CMDR-FOC-FOS System. All Components Are Sold Separately and This List is Not Limited to:

Commander Options:

· CMDR-FOC-FOS-2P, Two Pump Commander Package.
· CMDR-FOC-FOS-3P, Three Pump Commander Package.
· CMDR-FOC-FOS-4P, Four Pump Commander Package.
· CMDR-FOC-FOS-5P, Five Pump Commander Package.
· FOC-CWK, Out Door Cold Weather Kits.
· FOC-REC, Single Stage Fuel Polishing Filter / Separator Package.
· FPS-14, 14 GPM Three Stage Fuel Polishing Filter / Separator Package.

Main Tank Options:

· CMDR-FOC-FOS-5P, Five Pump Commander Package.
· FOC-MT-ASV, Main Tank Anti-Siphon Supply Valve Assembly.
· FOC-MT-LVL-PKG, Main Tank Leak and Level Package.
· FOC-RLD1, Remote High Level Alarm and Digital Tank Levels.

Day Tank Options:

· FOC-DT-LVL-PKG, Main Tank Leak and Level Package.
· FOC-DT-RP-TM14, Tank Mounted Return Pump Package (14 GPM)
· FOC-CV, Day Tank Supply Valve Assembly.

Boiler Options:

· FOC-BOILER, Visual Flow Indicator, Strainer and Isolation Ball Valve.

Specifications:

· Power requirements: Power input: 230VAC 1 phase with Neutral (others available including 3 phase).
· Enclosure: NEMA 4x, IP66 (suitable for outdoor and high corrosion areas).
· Stainless Steel NEMA 4x (optional)
· UL508A listed and meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2,
groups B, C, D.

More Information
(DPS-15-60) DUPLEX PUMPSET 15 TO 30 GPM, W/ DUPLEX STRAINER

DPS-15-30

Duplex pump sets range from 1 to 60 GPM. Made using all stainless steel pipe and fittings, carbon and bronzed ball valves.

More Information
DPS-VFD 2HP 3PH 230

DPS-VFD
DUPLEX VARIABLE SPEED PUMP MOTOR SPEED CONTROLLER.
USED FOR MOTORS 1.4 HP TO 25 HP (DISPLAYED FOR 2 HP MOTORS DRIVES

OPTIONS:
· SINGLE MOTOR APPLICATIONS
· TWO MOTOR APPLICATIONS
· SINGLE RUN SIGNAL WITH LEAD LAG PUMP CONTROL
· SINGLE RUN SIGNAL WITH ALTERNATING PUMP CONTROL
· MAIN PANEL DISCONNECT
· MOTOR CIRCUIT PROTECTION
· SINGLE PHASE INPUT
· THREE PHASE INPUT
· 120 VAC SINGLE PHASE INPUT
· 208/230 VAC SINGLE PHASE INPUT
· 208/230 VAC THREE PHASE INPUT
· 460 VAC THREE PHASE INPUT

SPECIFICATIONS:
· UL508A LISTED
· NENA 1 CARBON STEEL ENCLOSURE
· NENA 12 CARBON STEEL ENCLOSURE
· NENA 4 CARBON STEEL ENCLOSURE
· NENA 4X FIBERGLASS ENCLOSURE
· NENA 4X STAINLESS STEEL ENCLOSURE
· UP TO (2) 25 HORSE POWER 3 PHASE PUMP MOTORS
· CLASS 2 DIV 2 GROUPS B,C,D

More Information
The Auto Stick Controller is used to monitor tanks for leak and levels and provide pump controls based on up to six programmable level set points. The Auto Stick Controller (ASC) is commonly used on day tanks and generator belly sub tanks to maintain a critical level of fuel making sure the generator or boiler has the sufficient amount of fuel. The ASC utilizes leaks sensors to monitor the tanks for leaks in double wall or dike tanks applications. The ASC also incorporates a second leak sensor for a tank sump or piping sump. The ASC monitors the tank level and controls up the three 1hp single phase pumps. The pumps are typically a simplex or duplex delivery pumps and or return to main tank pumps.

The ASC has four programmable to display and control pumps and level alarms.

The ASC is a powerful compact controller utilizing state of the art equipment and technologies. The ASC is capable of integrating with your building management system via serial or Ethernet communications using the Modbus protocol.

Typical Display Data:

The Day / Belly Tank, Includes (1) Level Probe and (1) Leak Sensor:

- Product Level in 1/4 Inches.
- High Level Alarm Status (programable level).
- Pump Stop Level (programable level).
- Normal Product Level.
- Pump start Level (programable level).
- Low Level Alarm Status (programable level).
- Interstitial (Double Wall) Leak Sensor Status.
- Pump Run Status.
- Present and Historical Alarm Conditions.

The Pump Controls:

The Auto Stick Controller has connections for:

Inputs:

- 24VDC for up to one 4-20mA continuous level transmitter
- two leak sensors
- one overfill sensor

Outputs for:

- one anti-siphon valve assembly
- one day tank supply valve assembly
- up to three 1ph 115/230 VAC pump motors

Input power:

- 115VAC or 230VAC 30amp with neutral and ground

Output power:

- 24VDC for level probes and sensors
- 115VAC or 230VAC for pumps and valves

Typical Ordering Componetcs:

Controller Options:

- CMDR-ASC-120-0P (120VAC input power, two run output relays only)
- CMDR-ASC-120-1P (120VAC input power, one pump motor starter)
- CMDR-ASC-120-2P (120VAC input power, two pump motor starters)
- CMDR-ASC-230-1P (230VAC input power, one pump motor starter)
- CMDR-ASC-230-2P (230VAC input power, two pump motor starters)
- CMDR-ASC-RA1 (100DB Horn and Strobe Option) (Shown in Photo Sold Separately)

Level Probel Options: Form 4 inch tank to 60 inch tank at 4 inch intervals.

- ASC-LVL-04-CAM (4 inch tanks w/ mounting adapter)
- ASC-LVL-08-CAM (8 inch tanks w/ mounting adapter)
- ASC-LVL-12-CAM (12 inch tanks w/ mounting adapter)
- ASC-LVL-16-CAM (16 inch tanks w/ mounting adapter)
- Up to ASC-LVL-60-CAM (60 inch tanks w/ mounting adapter)
- FOC-SUMP-LK (standard leak sensor for double wall tanks and sumps)

Specifications:

- UL508A listed
- NEMA 4x IP66 enclosure.
- Suitable for class 2, division 2, class B, C  D environments

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls. Intergrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
  - * Leak and Level Devices
  - * Flow Indicators and Sensors
  - * Motor Starters and Overloads
  - * Water and Pressure Switches
  - * Pump Motors and Valves

Integrates with the Building Management System (BMS)

- Utilizes Three Modes of Operations:
  - * Fully Automatic Mode
  - * Supervise the Manual Mode
· * Emergency Manual Mode.
· * Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

· Automatic Polished Fuel
· Product Level In US Gallons.
· Product Level In Inches.
· Product Level In Percent Of Full Tank Capacity.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Low Level Warnings.
· Low Level Alarms.
· Optional Remote Fill Station Enunciation.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak Detection Sensors.
· Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

· Automatic Polished Fuel.
· Monitoring the Volume of the Day Tanks.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Normal Product Levels. (Maintained by Integrated Pump Controls)
· Low Level Warnings.
· Low Level Alarms.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping Sump Leak Detection Sensors.
· Integrates with Mechanical Overfill Valves.
· Pre-assembled Valve Box Enclosure integrates with:
· * Flow Switch
· * Visual Flow Indicator
· * Critical Mission Fuel Supply Solenoid Valve
· * Pressure Gauge
· * Lockable Manual Bypass Valve
· * Equipment Strainer
· Pre-assembled Return Pump System In Enclosure.
· Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly

Multiple Commercial Boiler Systems:

· Monitors the Boilers for Automatic Fuel Deliveries.
· Automatically Polishes the Fuel Upon Delivery.
· Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

· Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
· Automatically Polishes the Fuel on a Scheduled Basis.
· Polishes the Fuel from the Main Storage Tanks.
· Polishes the Fuel from the Days Storage Tanks.
· Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
· Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
· Monitors System Pressure and Differential Pressure Across the Elements.
· High Water Sensors.
· Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

· Automatic pump alternation sequencing.
· Lead Lag Pump Controls.(MISSION-CRITICAL)
· Automatic Pump Alternation Sequence.
· Enclosure Leak Detection Sensor.
· Monitored Pump Performance.
· Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

· Double Wall Pipe.
· Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

· Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
· Available 4 to 20 mA Output Of Fuel Levels to the BMS System
· Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
· Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

· One Incoming Power Source for Complete System.
· Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
· These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.
· Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main
Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.

- The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
- The System Reports All Conditions Back to the Building Management System.
- The System Is Purchased and Maintained by a Single Source.
- Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

- All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
- All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
- All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
- Available in Single Phase or Three-Phase (50 or 60 Hz)
- Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls.

The CMFTS integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
  - Leak and Level Devices
  - Flow Indicators and Sensors
  - Motor Starters and Overloads
  - Water and Pressure Switches
  - Pump Motors and Valves
- Integrates with the Building Management System (BMS)
- Utilizes Three Modes of Operations:
  - Fully Automatic Mode
  - Supervise the Manual Mode
· Emergency Manual Mode.
· Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

· Automatic Polished Fuel
· Product Level In US Gallons.
· Product Level In Inches.
· Product Level In Percent Of Full Tank Capacity.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Low Level Warnings.
· Low Level Alarms.
· Optional Remote Fill Station Enunciation.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak DetectionSensors.
· Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

· Automatic Polished Fuel.
· Monitoring the Volume of the Day Tanks.
· Overfill Protection.
· High Level Alarms.
· High Level Warnings.
· Normal Product Levels. (Maintained by Integrated Pump Controls)
· Low Level Warnings.
· Low Level Alarms.
· Interstitial (Double Wall Tank) Leak Detection Sensors.
· Piping SumpLeak DetectionSensors.
· Integrates with Mechanical Overfill Valves.
· Pre-assembled Valve Box Enclosure integrates with:
  · Flow Switch
  · Visual Flow Indicator
  · Critical Mission Fuel Supply Solenoid Valve
  · Pressure Gauge
  · Lockable Manual Bypass Valve
  · Equipment Strainer
· Pre-assembled Return Pump System In Enclosure.
· Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly

Multiple Commercial Boiler Systems:

· Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:

- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:

- Automatic pump alternation sequencing.
- Lead Lag Pump Controls. (MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:

- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:

- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:

- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.
- Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main
Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.

- The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
- The System Reports All Conditions Back to the Building Management System.
- The System Is Purchased and Maintained by a Single Source.
- Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:

- All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
- All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
- All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
- Available in Single Phase or Three-Phase (50 or 60 Hz)
- Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
**DAY TANK EQUIPMENT**

Day Tank Equipment

Mission Critical Daytank and Boiler Controls with Integrated Fuel Oil Management System and Non Mission Critical Day Tank Equipment and Controls

A pre-engineered fully integrated systems. Integrated Fuel Oil Management systems are designed to continuously monitor and control the level of fuel in day tanks, provide leak detection and alarms for tanks and piping, as well as control of pumps and valves for emergency generator day tank applications.

These integrated systems eliminate the installation problems, which arise when multiple suppliers are involved. Single source responsibility assures proper interface of critical processes such as emergency generator day tank level control, pump control, and tank inventory control and leak detection.

Our Systems are State of the art using the best equipment in the industry.

Major Components:

- Tanks UL 52, UL 2080 and UL 2085
- Single Wall, Double Wall and Diked
- Controls are UL508A
- Pumps are UL 342 Listed or Certified Better than UL342

Major Features:

- Day Tank Fuel Level Control
- Simplex Pump Set
- Duplex Pump Set
- Triplex Pump Set
- Return Pump Set
- Tank Level Monitoring
- Leak Monitoring
- Lead / Lag Pump Control
- Optional Filtration Circulation

Day Tank Equipment, Day Tank Equipment and Controls, Day Tank Equipment and Boiler Controls, Day Tank Equipment and Boiler Fuel Systems Controls

CHOOSE POPULAR ITEMS FROM THE LIST BELOW:

[More Information]
The Smart Controller ~ Commander FOS ~ Day Tank Fuel System Controls

The SmartControls Series Day / Belly tank duplex fuel transfer system is designed for us in applications requiring backup power. The SmartControls intelligently integrates fuel system monitoring and control functions in one simple automated package. Superior quality components insure years of trouble free service. Integration with our upstream and downstream fuel storage tank and pump systems provides one call service and support from the industry Leader in mission critical fuel systems.

The Smart Controller integrates the following equipment into one system:

The Main Storage Tank, Includes (1) Level Probe and (1) Leak Sensor:
- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.
- Optional Remote Fill Station Enunciation.

The Day / Belly Tank, Includes (1) Level Probe and (1) Leak Sensor:
- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Programmable Pump Start/Stop Levels.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:
- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps up to 1.5 hp, Single Phase (3 Phase is Available)
- Programmable Start/Stop Levels.
- Sump Leak Sensor (optional)
The Return Pump Controls, One for Each Daytank (optional)

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps up to 1.5 hp, Single Phase (3 Phase is Available)
- Programmable Start/Stop Levels.
- Momentary Pump Test Button

The Filtration/Fuel Polishing System (optional).

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.
- Programmable to Filtration/Fuel Polishing the Product Utilizing The Optional Return Pump.
- Verifies Component Operations Based on the Programmable Schedule.

The BMS:

- System Summary Alarm (1) Dry
- System Summary Warning (1) Dry
- Auto Dialer for System Alarms and Warnings (optional)
- Modbus

Specifications:

- Power requirements: Power input: 230VAC 1 phase with Neutral (others available).
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- UL508A listed and meets NEC (NFPA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
DAY TANK CONTROLLER
BDC-2LVL2LK

The Smart Controller ~ Watchdog ~ Day Tank Fuel System Controls

The SmartControls Series Day / Belly tank monitor fuel transfer system is designed for use in applications requiring backup power. The SmartControls intelligently integrates fuel system monitoring and control functions. The Watchdog monitors the day tank liquid levels and sends a signal to the remote pump starter and delivers the fuel. Superior quality components insure years of trouble free service. Integration with our upstream and downstream fuel storage tank and pump systems provides one call service and support from the industry Leader in mission critical fuel systems.

The Smart Controller integrates the following equipment into one system:

The Main Storage Tank, Includes (1) Level Probe and (1) Leak Sensor:

- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.
- Optional Remote Fill Station Enunciation.

The Day / Belly Tank, Includes (1) Level Probe and (1) Leak Sensor:

- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- High Level Alarm Status.
- High Level Warning Status.
- Low Level Warning Status.
- Low Level Alarm Status.
- Interstitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.

The Pump Controls:

- Pump Run Status.

The BMS:

- System Summery Alarm (1) Dry

Leak, level sensors and motor starters are sold separately.
DAY TANK LEVEL MONITOR - LLM-2 (2 Point)

LLM-2

Liquid Level Monitor and leak-detection system provides continuous, accurate monitoring in a variety of applications. Typical applications are storage tanks, sumps, dry interstitial spaces and dispenser pans.

The Liquid Level Monitor - LLM-2 (2 Point) system can be used to monitor a wide variety of locations. The LLM-2 you can choose two for the standard list or you can tell us what type of location (or switch) you would like to monitor.

A Standard List of Points To Monitor are:

· Over Fill Alarm
· High High Level Alarm
· High Level Alarm
· High Level Warning
· Delivery Needed Warning
· Low Level Warning
· Low Level Alarm
· Tank Leak Alarm
· Piping Sump Leak Alarm

Specifications:

· NEMA 4x Enclosure - Suitable for Outdoor and High Corrosive Locations
· Suitable for Combustible products (Flammables Available Upon Request)
· Class 2, Div 2 Locations (Class 1, Div 1 Available Upon Request)
· UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

More Information
Day Tank 50 Gallon
DT-50-DW
50 Gallon Day Tank

More Information
**SC2-AVI SITECONTROLLER-AVI 2 PUMP & DISPENSER**

Fuel System Controls - SiteController 2 - Duplex Power Distribution, Dispenser / Submersible SiteController -
The SiteController Fuel System Controls is an upgraded SiteManager that includes provisions for a power fill pump or an external off loading pump along with the submersible pump. Not only is the SiteController a power distribution and a motor control panel with e-stop controls, it also has a pump start and stop buttons surface mounted on the out side of the enclosure for you power fill pump. The SiteController is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteController is pre-wired and installs like a sub panel adjacent to our tank and dispensing area.

**Standard features are:**

- Single input power connections with main power disconnect.
- NEMA 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- Dedicated dispenser control and anti-siphon circuit.
- Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated power fill or external pump control and overload protection circuit with Start and Stop.
- Controls up to (7.5 hp max) motors.
- (2) Pump run indicator LED lights.
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit. Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

**Available options:**

- Select from the list of voltages.
- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit. Specifications:

  - Standard NEMA 4x Enclosure NEMA 7 AVAILABLE. UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, locations
  - Power requirements: Power input: See “Power Options”.
  - Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
  - All Circuit Breaker are Swswitched Neutral
  - All emergency stopped curcuits break all power and neutrals curcuits.
  - UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - Site Controller 2 - Duplex Power Distribution, Dispenser / Submersible SiteController -
The SiteController Fuel System Controls is an upgraded SiteManager that includes provisions for a power fill
pump or an external off loading pump along with the submersible pump. Not only is the SiteController a power
distribution and a motor control panel with e-stop controls, it also has a pump start and stop buttons surface
mounted on the out site of the enclosure for your power fill pump. The SiteController is all you need to control
the complete operations of the fuel system and designed to integrate with all fuel components. The
SiteController is pre-wired and installs like a sub panel adjacent to your tank and dispensing area.
Standard features are:

· Single input power connections with main power disconnect.
· NEMA7/9 enclosure suitable for outdoor and high corrosion areas.
· Panel mounted emergency stop control button.
· Dedicated dispenser control and anti-siphon circuit.
· Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
· Dedicated power fill or external pump control and overload protection circuit with Start and Stop.
· Controls up to (7.5 hp max) motors.
· (2) Pump run indicator LED lights.
· Dedicated fuel management control circuit.
· Dedicated tank level gauge circuit.
· Dedicated fire suppression / emergency stop control circuit.
· Dedicated dry output for remote emergency stop controls circuit.
· Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

· Select from the list of voltages.
· Additional dedicated circuits (emergency stop controlled).
· Additional dedicated circuits (non-emergency stop controlled).
· Lighting and control circuit.

Specifications:

· Power requirements: Power input: See “Power Options”.
· Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
· All Circuit Breaker are Switched Neutral
· All emergency stopped curcuits break all power and neutrals curcuits.
· UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - SiteManager 1 EXPLOSION PROOF Single Product Dispenser System.

The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 7/9 enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (1) Dedicated dispenser control and anti-siphon circuit.
- (1) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Swtiched Neutral
- All emergency stopped circuits break all power and neutrals circuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - SiteManager 2 EXPLOSION PROOF 2 Product Dispenser System.

The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 7/9 enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (2) Dedicated dispenser control and anti-siphon circuit.
- (2) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Swsitched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - SiteManager 1  Single Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.
Standard features are:

- Single input power connection with main power disconnect.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (1) Dedicated dispenser control and anti-siphon circuit.
- (1) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.
- Add to shopping cart to see the available options and upgrades for this product.
- Available options:
  - Additional dedicated circuits (emergency stop controlled).
  - Additional dedicated circuits (non-emergency stop controlled).
  - Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Swwitched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - SiteManager 2 Twin Product Dispenser System.

The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (2) Dedicated dispenser control and anti-siphon circuit.
- (2) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (3) Dedicated dispenser control and anti-siphon circuit.
- (3) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls. Intergrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package. Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Swtch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
  - Leak and Level Devices
  - Flow Indicators and Sensors
  - Motor Starters and Overloads
  - Water and Pressure Switches
  - Pump Motors and Valves
- Integrates with the Building Management System (BMS)
Utilizes Three Modes of Operations:
- Fully Automatic Mode
- Supervise the Manual Mode

Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:
- Automatic Polished Fuel
- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- Overfill Protection.
- High Level Alarms.
- High Level Warnings.
- Low Level Warnings.
- Low Level Alarms.
- Optional Remote Fill Station Enunciation.
- Interstitial (Double Wall Tank) Leak Detection Sensors.
- Piping Sump Leak Detection Sensors.
- Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:
- Automatic Polished Fuel.
- Monitoring the Volume of the Day Tanks.
- Overfill Protection.
- High Level Alarms.
- High Level Warnings.
- Normal Product Levels. (Maintained by Integrated Pump Controls)
- Low Level Warnings.
- Low Level Alarms.
- Interstitial (Double Wall Tank) Leak Detection Sensors.
- Piping Sump Leak Detection Sensors.
- Integrates with Mechanical Overfill Valves.
- Pre-assembled Valve Box Enclosure integrates with:
  - Flow Switch
  - Visual Flow Indicator
  - Critical Mission Fuel Supply Solenoid Valve
  - Pressure Gauge
  - Lockable Manual Bypass Valve
  - Equipment Strainer
- Pre-assembled Return Pump System In Enclosure.
- Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly
Multiple Commercial Boiler Systems:
- Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:
- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:
- Automatic pump alternation sequencing.
- Lead Lag Pump Controls. (MISSION-CRITICAL)
- Automatic Pump Alternation Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:
- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:
- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:
- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as
Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection Systems.
· Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.
· The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
· The System Reports All Conditions Back to the Building Management System.
· The System Is Purchased and Maintained by a Single Source.
· Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:
· All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
· All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
· All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
· Available in Single Phase or Three-Phase (50 or 60 Hz)
· Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
CMFTS - CRITICAL MISSION FUEL TRANSFER SYSTEM

The SmartControls Series - Critical Mission Fuel Transfer System (CMFTS) Fuel System Controls. Intergrated Fuel System Tank Monitor / Pump Controller up to 10 main tanks and 10 day tanks, Duplex Fuel Polisher System and up to 10 Duplex Pump Sets all on one package.

Designed for use in critical applications requiring the highest degree of reliability such as backup power facilities, data centers, institutional boiler supply, and hospitals. The SmartControls intelligently integrates all of the fuel system components into one simple automated package. The (CMFTS) is designed using state of the art equipment and technologies. The (CMFTS) integrates tank gauging and level monitoring, system leak detection, lead/lag fuel transfer pumps, a fuel polishing system, day tanks and return pumps and boiler supply into one complete system. All of the statuses and alarm conditions will be displayed on a Operator Interface Terminal (digital touch screen display). The complete system can be interfaced and monitored from most building management systems. If configured, this state of the art (CMFTS) can be monitored and controlled (multi level password protected) by any web browser. The (CMFTS) is engineered to the highest standards and is built and tested to UL508A standards and labeled accordantly.

Critical Mission Fuel Transfer System integrates the following into one system:

- Critical Mission System Control
- Multiple Main Storage Tanks
- Multiple Day Tanks and Belly Tanks
- Multiple Commercial Boiler Systems
- Fuel Polishing Systems
- Duplex Pump Control Systems
- Above and below Ground Pipe Leak Detection
- Integrated Building Management System

Critical Mission System Controller:

- Dual (or Single) Power Source Feed
- Auto-Switch on Dual Power Source
- Single point connection to Fuel System Equipment
- Control Power Transformer and Circuit Breakers
- Pump Motor Starters with Manual Disconnect and Overload Protection
- State-Of-The-Art Programmable Logic Controller (PLC)
- State-Of-The-Art Operator Interface Terminal (OIT) Touchscreen
- Monitors and Controls All System Components.
  - * Leak and Level Devices
  - * Flow Indicators and Sensors
  - * Motor Starters and Overloads
  - * Water and Pressure Switches
  - * Pump Motors and Valves
  - Integrates with the Building Management System (BMS)
- Utilizes Three Modes of Operations:
  - * Fully Automatic Mode
  - * Supervise the Manual Mode
- * Allows Maintenance of Equipment Without Equipment Shutdown (CRITICAL MISSION)

Multiple Main Storage Tanks Leak and Level Monitoring:

- Automatic Polished Fuel
- Product Level In US Gallons.
- Product Level In Inches.
- Product Level In Percent Of Full Tank Capacity.
- Overfill Protection.
- High Level Alarms.
- High Level Warnings.
- Low Level Warnings.
- Low Level Alarms.
- Optional Remote Fill Station Enunciation.
- Interstitial (Double Wall Tank) Leak Detection Sensors.
- Piping SumpLeak Detection Sensors.
- Main Tank Level Balancing (With Multiple Tanks)

Multiple Day Tanks and Belly Tanks:

- Automatic Polished Fuel.
- Monitoring the Volume of the Day Tanks.
- Overfill Protection.
- High Level Alarms.
- High Level Warnings.
- Normal Product Levels. (Maintained by Integrated Pump Controls)
- Low Level Warnings.
- Low Level Alarms.
- Interstitial (Double Wall Tank) Leak Detection Sensors.
- Piping SumpLeak Detection Sensors.
- Integrates with Mechanical Overfill Valves.
- Pre-assembled Valve Box Enclosure integrates with:
  - Flow Switch
  - Visual Flow Indicator
  - Critical Mission Fuel Supply Solenoid Valve
  - Pressure Gauge
  - Lockable Manual Bypass Valve
  - Equipment Strainer
- Pre-assembled Return Pump System In Enclosure.
- Both Valve Box In Return Pump Can Be Incorporated in the Same Enclosure As One Assembly

Multiple Commercial Boiler Systems:

- Monitors the Boilers for Automatic Fuel Deliveries.
- Automatically Polishes the Fuel Upon Delivery.
- Verifies Flow and Maintains the Pressure As Required.

Fuel Polishing Systems:
- Able to Change Filter Elements While This System Is in Operation. (MISSION-CRITICAL)
- Automatically Polishes the Fuel on a Scheduled Basis.
- Polishes the Fuel from the Main Storage Tanks.
- Polishes the Fuel from the Days Storage Tanks.
- Provides Maximum Fuel System Reliability by Removing Entrained Moisture and Accumulated Contaminants.
- Keeps Fuel Dry, Promoting Bacteria Free Environment and Preventing Contaminant Build up.
- Monitors System Pressure and Differential Pressure Across the Elements.
- High Water Sensors.
- Enclosure Leak Detection Sensor.

Duplex Pump Control Systems:
- Automatic pump alternation sequencing.
- Lead Lag Pump Controls. (MISSION-CRITICAL)
- Automatic Pump Alteration Sequence.
- Enclosure Leak Detection Sensor.
- Monitored Pump Performance.
- Integrated Flow Switches.

Above and below Ground Pipe Leak Detection:
- Double Wall Pipe.
- Monitors All Piping Sumps and System Enclosures.

Integrated Building Management System:
- Integrates with Building Management systems (BMS) Ethernet, RS232, RS422, Modbus compatible. (OPTIONAL)
- Available 4 to 20 mA Output Of Fuel Levels to the BMS System
- Available 8 Alarms Dry Contacts For Critical System Alarm Conditions.
- Additional Operator Interface Terminal (OIT) Located in a Remote Location (OPTIONAL)

System Benefits:
- One Incoming Power Source for Complete System.
- Integrates All Equipment into One System Including Single wall or Double Wall Pipe.
- These Integrated Systems Eliminate the Hassle of Integrating Multiple Pieces of Equipment, Such as
  Emergency Generators, a Tank Level Controls, Pump Controls, Take Inventory Controls, And Leak Detection
  Systems.
- Pre-assembled Date Tank Valve Assemblies, Return Pump Assemblies, Filtration System Assembly, Main
Tank Valve Assemblies, Enabling a Simple Install. In Most Cases the System Can Be Installed By Hooking up a Single Single wall or Double Wall Pipe From Point-To-Point.
· The System Electrical Comes with Point-To-Point Wiring Diagrams Enabling Hassle free Installations.
· The System Reports All Conditions Back to the Building Management System.
· The System Is Purchased and Maintained by a Single Source.
· Integrates up to Four Main Storage Tanks and up to eight Day Tank Storage Tanks.

Specifications:
· All Equipment Is Housed in NEMA 4x stainless steel 304 enclosures. (Carbon Steel Powder Coated Available).
· All Equipment Piping is Stainless Steel 304. Eliminates All Paint for Pipe Valves and Fittings. Hassle free Maintenance For the Life of the Equipment.
· All Leak And Level Sensors And Level Transmitters Are Made of Stainless Steel Construction.
· Available in Single Phase or Three-Phase (50 or 60 Hz)
· Available in Multiple Voltages.

When the Mission is Critical, WE ARE THERE!

More Information
The Smart Fuel Polishing System (FPS-XX-E) is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-14) is fully automated with remote monitoring capabilities. Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration / Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for Filtration / Polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-V is designed to handle main storage tanks and belly/daytanks.

System Benefits:

- Heavy Duty Pump Package
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation).
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor

Operating status and alarms:
· Stage 1 - (40 mesh) Strainer needs cleaning alarm.
· Stage 2 - (25 micron) Filter needs cleaning alarm.
· Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
· Motor Overload.
· Pump Failure.
· Elosure liquid alarm.
· Maintenance needed warming (Filters need changing)

The BMS:

· System Summary Alarm (1) Dry
· RS232 Standard, (Ethernet optional)
· Modbus

Specifications:

· Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
· Flow Rates, FPS-02-E (GPM), FPS-04-E (4 GPM), FPS-07-E (7 GPM), FPS-10-E (10 GPM) FPS-14-E (14 GPM)
· Max PSI IS 25 (About 25 Feet of Head) (Others Available)
· Enclosure: Nema 4 (suitable for outdoor).
· Controls UL508A listed
· Meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

· Add a 1/2" tee and an automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL

More Information
The Smart Fuel Polishing System (FPS-14-XX-UL) uses an UL-343 listed pump and motor. The system is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-XX-UL) is fully automated with remote monitoring capabilities. Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration / Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for Filtration / Polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-UL is designed to handle main storage tanks and belly/day tanks.

System Benefits:

- UL-343 Listed Pump and Motor (NYC Ready)
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation.
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor
Operating status and alarms:

- Stage 1 - (40 mesh) Strainer needs cleaning alarm.
- Stage 2 - (25 micron) Filter needs cleaning alarm.
- Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
- Motor Overload.
- Pump Failer.
- Enclosure liquid alarm.
- Maintenance needed warming (Filters need changing)

The BMS:

- System Summary Alarm (1) Dry
- RS232 Standard, (Ethernet optional)
- Modbus

Specifications:

- UL-343 Listed Viking Pump and Motor
- Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
- Flow Rates: FPS-04-UL (4 gpm), FPS-07-UL (7 GPM), FPS-10-UL (10 GPM), FPS-14-UL (14 GPM)
- Max PSI IS 25 (About 25 Feet of Head) (Others Available)
- Enclosure: Nema 4 (suitable for outdoor).
- Controls UL508A listed
- Meets NEC (NPFA70) and NFPA 30 37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

- Add a 1/2" tee and an automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL
The Smart Fuel Polishing System (FPS-XX-V) is a three stage plus water removal standalone fuel polishing system designed for diesel, kerosene and biodiesel fuels. The system efficiently removes water and solids to 1 micron, insuring clean, dry, contaminant-free fuel for emergency diesel generators and other fuel storage facilities. The Fuel Polishing System (FPS-14) is fully automated with remote monitoring capabilities. Smart Fuel Polishing Systems are packaged in a powder coated steel cabinet and are designed with high quality industrial components to assure extended life and trouble-free operation. The Smart Fuel Polishing System Filtration/Polisher has a state of the art designed to minimize the footprint and maximize the efficiency for Filtration/Polishing of tanks from 100 to 500,000 gallon tank capacity. The FPS-XX-V is designed to handle main storage tanks and belly/day tanks.

System Benefits:

- Viking Pump Package
- Eliminates annual tank cleaning, fuel purchases, and disposal costs.
- Discourages the growth of bacteria, reducing the need for expensive additives.
- Removes contaminants to 1 micron, exceeding manufacturers recommendations.
- Multi-Tank Capability (Optional).
- Automatic Unattended Operation.
- Fully programmable 7 day event schedule.
- Integrates with Building Management Systems (BMS).
- Three stage filtration (Course, Fine and Water Separation.
- Monitors differential pressures across each stage of the filtration.
- Monitors enclosure leak detection.
- Filters up to 14 gallons per minute.

The Filtration/Fuel Polishing System.

- Monitors Filter Differential Pressure.
- Monitors Separators for Water.
- Programmable 24/7 Filtration/Fuel Polishing Schedule.

The Pump Controls, Includes Duplex Motor Starters and Overload Protection:

- Pump Run Status.
- Monitors Motor Starters and Overload Protection.
- Controls Pumps Three Phase (1 Phase is Available)
- Enclosure Leak Sensor

Operating status and alarms:
- Stage 1 - (40 mesh) Strainer needs cleaning alarm.
- Stage 2 - (25 micron) Filter needs cleaning alarm.
- Stage 3 - (1 micron) Fuel / water separator needs cleaning alarm.
- Motor Overload.
- Pump Failer.
- Enclosure liquid alarm.
- Maintenance needed warming (Filter need changing)

The BMS:

- System Summary Alarm (1) Dry
- RS232 Standard, (Ethernet optional)
- Modbus

Specifications:

- Power requirements: Power input: 115/208/230 1 Phase. (3 Phase Available).
- Flow Rates, FPS-07-V (7 GPM), FPS-10-V (10 GPM) FPS-14-V (14 GPM)
- Max PSI IS 25 (About 25 Feet of Head) (Others Available)
- Enclosure: Nema 4 (suitable for outdoor).
- Controls UL508A listed
- Meets NEC (NPFA70) and NFPA 30-37 requirements. Suitable for class 2, division 2, groups B, C, D.

Optional Equipment:

- Add a 1/2" tee and automatic drain solenoid valve in the outlet drain in the bottom of the filter to automatically drain the water out of the filter into an approved container with a high level sensor.

PHOTOS DISPLAYED MAY NOT BE OF THE ACTUAL MODEL
The SiteController Fuel System Controls is an upgraded SiteManager that includes provisions for a power fill pump or an external off loading pump along with the submersible pump. Not only is the SiteController a power distribution and a motor control panel with e-stop controls, it also has a pump start and stop buttons surface mounted on the out site of the enclosure for you power fill pump. The SiteController is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteController is pre-wired and installs like a sub panel adjacent to our tank and dispensing area.

Standard features are:

- Single input power connections with main power disconnect.
- NEMA 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- Dedicated dispenser control and anti-siphon circuit.
- Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated power fill or external pump control and overload protection circuit with Start and Stop.
- Controls up to (7.5 hp max) motors.
- (2) Pump run indicator LED lights.
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Select from the list of voltages.
- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Standard NEMA 4x Enclosure NEMA 7 AVAILABLE.
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, locations.
- Power requirements: Power input: See “Power Options”.
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Swswitched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.
SITECONTROLLER (EXP) 2 POWER DISTRIBUTION, POWERFILL, DISPENSER

Fuel System Controls - Site Controller 2 - Duplex Power Distribution, Dispenser / Submersible SiteController - The SiteController Fuel System Controls is an upgraded SiteManager that includes provisions for a power fill pump or an external off loading pump along with the submersible pump. Not only is the SiteController a power distribution and a motor control panel with e-stop controls, it also has a pump start and stop buttons surface mounted on the outside of the enclosure for you power fill pump. The SiteController is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteController is pre-wired and installs like a sub panel adjacent to our tank and dispensing area.

Standard features are:

- Single input power connections with main power disconnect.
- NEMA7/9 enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- Dedicated dispenser control and anti-siphon circuit.
- Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated power fill or external pump control and overload protection circuit with Start and Stop.
- Controls up to (7.5 hp max) motors.
- (2) Pump run indicator LED lights.
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Select from the list of voltages.
- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
SITE MANAGER (EXP) 1 PRODUCT POWER DISTRIBUTION, DISPENSER / SUBM

SM1E-2301115

Fuel System Controls - SiteManager 1 EXPLOSION PROOF Single Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 7/9 enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (1) Dedicated dispenser control and anti-siphon circuit.
- (1) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Sswitched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
SITE MANAGER (EXP) 2 PRODUCT POWER DISTRIBUTION, DISPENSER / SUBM

SM2E-2301115

Fuel System Controls - SiteManager 2 EXPLOSION PROOF 2 Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 7/9 enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (2) Dedicated dispenser control and anti-siphon circuit.
- (2) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
Fuel System Controls - SiteManager 1 Single Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate will all fuel components. The SiteManager is prewired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (1) Dedicated dispenser control and anti-siphon circuit.
- (1) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.
- Add to shopping cart to see the available options and upgrades for this product.
- Available options:
  - Additional dedicated circuits (emergency stop controlled).
  - Additional dedicated circuits (non-emergency stop controlled).
  - Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped circuits break all power and neutrals circuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
SITEMANAGER 2 PRODUCT POWER DISTRIBUTION, DISPENSER / SUBMERSIBLE

Fuel System Controls - SiteManager 2 Twin Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and designed to integrate with all fuel components. The SiteManager is pre-wired and installs like a sub panel adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- NEMA 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (2) Dedicated dispenser control and anti-siphon circuit.
- (2) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: NEMA 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped circuits break all power and neutrals circuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.
SiteManager 3 Product Power Distribution, Dispenser / Submersible

SM3-2303115

Fuel System Controls - SiteManager 3 Three Product Dispenser System.
The SiteManager Fuel System Controls is all you need to control the complete operations of the fuel system and
designed to integrate all fuel components. The SiteManager is prewired and installs like a sub panel
adjacent to your tank and dispensing area.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Panel mounted emergency stop control button.
- (3) Dedicated dispenser control and anti-siphon circuit.
- (3) Dedicated submersible starter control and overload protection circuit (1-1/2 hp max).
- Dedicated fuel management control circuit.
- Dedicated tank level gauge circuit.
- Dedicated fire suppression / emergency stop control circuit.
- Dedicated dry output for remote emergency stop controls circuit.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available options:

- Additional dedicated circuits (emergency stop controlled).
- Additional dedicated circuits (non-emergency stop controlled).
- Lighting and control circuit.

Specifications:

- Power requirements: Power input: See "Power Options".
- Enclosure: Nema 4x (suitable for outdoor and high corrosion areas).
- All Circuit Breaker are Switched Neutral
- All emergency stopped curcuits break all power and neutrals curcuits.
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 2, division 2, groups B, C, D.

More Information
EQUIPMENT BY APPLICATION -/- OIL WATER SEPERATOR

(RA1-24) REMOTE ALARM, SINGLE POINT 24VDC

RA1-120

REMOTE SINGLE POINT (EXAMPLE HIGH LEVEL) ALARM WITH STROBE, 100DB ALARM AND ACKNOWLEDGEMENT SWITCH.

THIS SINGLE POINT REMOTE ALARM CAN BE USED FOR MANY PURPOSES:

- TANK HIGH ALARM LEVEL
- TANK HIGH WARNING LEVEL
- TANK LOW WARNING LEVEL
- TANK LOW ALARM LEVEL
- TANK LEAK ALARM
- EMERGENCY STOP DEVICE ACTIVATED
- ANY REMOTE SIGNAL MONITORING

SPECIFICATIONS:

- 24VDC POWER
- NEMA 4X ENCLOSURE
- UL508A LISTED
- RATED FOR CLASS 2 LOCATIONS

AVAILABLE OPTIONS:

- 120VAC
- ADDITIONAL SIGNAL POINTS
- STAINLESS STEEL ENCLOSURE/
- EXPLOSION PROOF ENCLOSURE
- INTRINSICALLY SAFE BARRIERS

More Information
POWER FILL
SFC

The Power Fill system for the transfer of fuels from gravity trucks to above ground storage tanks and control of filling operations to prevent overfill. The system allows for draining of the truck delivery hose. The Power Fill provides a ground level connection of the full hose, and captures spills that may occur at the fill point during filling operations. The Smart Filler includes a high vallum fuel transfer pump and intelligent pump controls.

The Power Fill:

- Freestanding, pad mountable, open construction pumpset with weatherproof and lockable fill box with 7 gallon spill containment sump and weatherproof and lockable control box 2", 3" or 4" fittings
- Quick disconnect hose coupling with dust plug Inlet shutoff valve
- Check valve and Ball valve
- Spill sump drain valve
- High capacity transfer pump
- Ground stud
- Couplers and adapter

Controller:

- Level transmitter for installation in 2" tank fitting minimum
- High Level and Tank Leak visual alarms
- Audible alarm horn activated by alarms above
- Power Available indicator
- Emergency Stop Switch
- Control Power On-Off switch (keyed)
- Pump Start/Stop pushbuttons
- Top-off/hose drain mode pushbutton
- Pump starter and Overload
- NEMA 4X control enclosure (fuel oil version) Explosion proof control enclosure (gasoline version Optional)

Multiple Tank Power Fill (optional):

- The operator selects the tank to be filled with automatic lockout of off-line tank(s) Sophisticated interlocks prevent inadvertent filling of a non-selected tank
- Tank level indicators
- Electrically operated shut-off valves for each tank, shipped loose for installation at the inlet of each tank
- Automatic pump shutdown
Performance:
- 5HP 3 Phase Pump with 3” Pipe Rated for 200 GPM
- 3HP 3 Phase Pump with 2” Pipe Rated for 150 GPM

More Information
The Smart Fill Automatic Fuel Tank Fill Systems is for the transfer of fuels from gravity trucks to above ground storage tanks and control of filling operations to prevent overfill. The system allows for draining of the truck delivery hose. The Smart Filler provides a ground level connection of the full hose, and captures spills that may occur at the fill point during filling operations. The Smart Filler includes a high vallum fuel transfer pump and intelligent pump controls.

The Smart Fill:

- Freestanding, pad mountable, open construction pumpset with weatherproof and lockable fill box with 7 gallon spill containment sump and weatherproof and lockable control box 2”, 3” or 4” fittings
- Quick disconnect hose coupling with dust plug Inlet shutoff valve
- Check valve and Ball valve
- Spill sump drain valve
- High capacity transfer pump
- Ground stud
- Couplers and adapter

Controller:

- Level transmitter for installation in 2” tank fitting minimum
- High Level and Tank Leak visual alarms
- Audible alarm horn activated by alarms above
- Power Available indicator
- Emergency Stop Switch
- Control Power On-Off switch (keyed)
- Pump Start/Stop pushbuttons
- Top-off/hose drain mode pushbutton
- Pump starter and Overload
- NEMA 4X control enclosure (fuel oil version) Explosion proof control enclosure (gasoline version Optional)

[] Multiple Tank Smart Fill (optional):

- The operator selects the tank to be filled with automatic lockout of off-line tank(s) Sophisticated interlocks prevent inadvertent filling of a non-selected tank
- Tank level indicators
- Electrically operated shut-off valves for each tank, shipped loose for installation at the inlet of each tank.
- Automatic pump shutdown

Performance:

[] 7.5HP 3 Phase Pump with 3” Pipe Rated for 300 GPM
[] 5HP 3 Phase Pump with 3” Pipe Rated for 200 GPM
[] 3HP 3 Phase Pump with 2” Pipe Rated for 150 GPM
[] Full Enclosure Option. The pump base is located in a full weather-tight powder coated vented enclosure.

More Information
(RA1-24) REMOTE ALARM, SINGLE POINT 24VDC
RA1-120

REMOTE SINGLE POINT (EXAMPLE HIGH LEVEL) ALARM WITH STROBE, 100DB ALARM AND ACKNOWLEDGEMENT SWITCH.

THIS SINGLE POINT REMOTE ALARM CAN BE USED FOR MANY PURPOSES:

- TANK HIGH ALARM LEVEL
- TANK HIGH WARNING LEVEL
- TANK LOW WARNING LEVEL
- TANK LOW ALARM LEVEL
- TANK LEAK ALARM
- EMERGENCY STOP DEVICE ACTIVATED
- ANY REMOTE SIGNAL MONITORING

SPECIFICATIONS:

- 24VDC POWER
- NEMA 4X ENCLOSURE
- UL508A LISTED
- RATED FOR CLASS 2 LOCATIONS

AVAILABLE OPTIONS:

- 120VAC
- ADDITIONAL SIGNAL POINTS
- STAINLESS STEEL ENCLOSURE/
- EXPLOSION PROOF ENCLOSURE
- INTRINSICALLY SAFE BARRIERS

More Information
LIQUID LEVEL MONITOR - LLM-1 (1 Point)

LLM-1

Liquid Level Monitor and leak-detection system provides continuous, accurate monitoring in a variety of applications. Typical applications are storage tanks, sumps, dry interstitial spaces and dispenser pans.

The Liquid Level Monitor - LLM-1 (1 Point) system can be used to monitor a wide variety of locations. The LLM-1 you can choose two for the standard list or you can tell us what type of location (or switch) you would like to monitor.

A Standard List of Points To Monitor are:

- Over Fill Alarm
- High High Level Alarm
- High Level Alarm
- High Level Warning
- Delivery Needed Warning
- Low Level Warning
- Low Level Alarm
- Tank Leak Alarm
- Piping Sump Leak Alarm

Specifications:

- NEMA 4x Enclosure - Suitable for Outdoor and High Corrosive Locations
- Suitable for Combustible products (Flammables Available Upon Request)
- Class 2, Div 2 Locations (Class 1, Div 1 Available Upon Request)
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

FOR GASOLINE OR FLAMMABLE CLASS 1 PRODUCTS AN IS-SAFE PACK MUST BE ADDED.
LIQUID LEVEL MONITOR - LLM-2 (2 Point)

LLM-2

Liquid Level Monitor and leak-detection system provides continuous, accurate monitoring in a variety of applications. Typical applications are storage tanks, sumps, dry interstitial spaces and dispenser pans.

The Liquid Level Monitor - LLM-2 (2 Point) system can be used to monitor a wide variety of locations. The LLM-2 you can choose two for the standard list or you can tell us what type of location (or switch) you would like to monitor.

A Standard List of Points To Monitor are:

- Over Fill Alarm
- High High Level Alarm
- High Level Alarm
- High Level Warning
- Delivery Needed Warning
- Low Level Warning
- Low Level Alarm
- Tank Leak Alarm
- Piping Sump Leak Alarm

Specifications:

- NEMA 4x Enclosure - Suitable for Outdoor and High Corrosive Locations
- Suitable for Combustible products (Flammables Available Upon Request)
- Class 2, Div 2 Locations (Class 1, Div 1 Available Upon Request)
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

FOR GASOLINE OR FLAMMABLE CLASS 1 PRODUCTS AN IS-SAFE PACK MUST BE ADDED.

More Information
The Smart Controller is Smart Gauge 1 Tank-K (kit) Monitoring System Controls. The Smart Controller is Smart Gauge 1-K is the ultimate in the gauging systems. This does it all. Smart Gauge is designed for use in applications requiring tank level and leak detection. Superior quality components insure years of trouble free service. Integration with our upstream and downstream fuel storage tank and pump systems provides one call service and support from the industry Leader in mission critical fuel systems.

The Smart Controller integrates the following equipment into one system:

- Product Level In US Gallons. (up to 15,000,000 Gallons)
- Product Level In Inches. (0.01”)
- Product Level In Percent Of Full Tank Capacity.
- Programmable High Level Alarm Set Points.
- Programmable High Level Warning Set Points.
- Programmable Low Level Warning Set Points.
- Programmable Low Level Alarm Set Points.
- Intersitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.
- Optional Remote Fill Station Enunciators.

The Kit Includes the following:

- Smart Gauge (for one tank)
- 1 Level Probes (up to 144” tanks)
- 1 Leak Sensors (Stainless Steel)

System Specifications:

- Power requirements 120 VAC (other options available).
- Enclosure: NEMA 4x (suitable for outdoor and high corrosion areas).
- UL508a listed and complies with NFPA 70 and NFPA 30, 30a, 31, 37, 110 IFC 34 6 and labeled accordingly for its intended use.

The BMS:

- System Summery Alarm (2) Dry

Suitable for class 2, division 2 Locations and products.

More Information
The Smart Controller ~ Smart Gauge 2 Tank-K (kit) Monitoring System Controls.

The Smart Controller ~ Smart Gauge 2-K is the ultimate in the gauging systems. This does it all. Smart Gauge is designed for use in applications requiring tank level and leak detection. Superior quality components insure years of trouble free service. Integration with our upstream and downstream fuel storage tank and pump systems provides one call service and support from the industry Leader in mission critical fuel systems.

The Smart Controller integrates the following equipment into one system:

- Two Storage Tanks: Product Level In US Gallons. (up to 15,000,000 Gallons)
- Product Level In Inches. (0.01")
- Product Level In Percent Of Full Tank Capacity.
- Programmable High Level Alarm Set Points.
- Programmable High Level Warning Set Points.
- Programmable Low Level Warning Set Points.
- Programmable Low Level Alarm Set Points.
- Interstitial (Double Wall) Leak Sensor Status.
- Present And Historical Alarm Conditions.
- Optional Remote Fill Station Enunciators.

The Kit Includes the following:

- Smart Gauge (for two tanks)
- 2 Level Probes (up to 144" tanks)
- 2 Leak Sensors (Stainless Steel)

System Specifications:

- Power requirements 120 VAC (other options available).
- Enclosure: NEMA 4x (suitable for outdoor and high corrosion areas).
- UL508A listed and complies with NFPA 70 and NFPA 30, 30a, 31, 37, 110 IFC 34 6 and labeled accordingly for its intended use.

The BMS:

- System Summery Alarm (2) Dry

Suitable for class 2, division 2 Locations and products.
Fuel Tank Heater Controls. Here is a panel that works great and won't cost you an arm and a leg! More information coming soon. Call 315-403-9985 or email Joe@petropanels.com for more information.

More Information
ACCESSORIES -/- Heater Systems

**ENC-HTR-800W-KIT**

**ENC-HTR-800W**

FUEL SYSTEM CONTROLS EQUIPMENT ENCLOSURE HEATER KIT.

THE KIT INCLUDES:

· 800 WATT HEATER WITH INTERNAL THERMOSTATE
· 10A SINGLE POLE BREAKER
· 5' SJO CABLE
· CABLE CORD GRIP

VERY EASY TO INSTALL IN MINUTES

SPECIFICATIONS:

· 120VAC @ 6.66 AMPS
· NEMA 1 RATED

[More Information]
ACCESSORIES -/- Probes - Sensors

DAY TANK LEVEL SENSOR
LS-06-43-SS

DAY TANK LEVEL SENSOR UP TO 43" TANK - STAINLESS 316 CONTRUCTION
FITTING: 2" NPT, Sq head, Solid, SS
ADJUSTABLE FITTING: SS compression fitting w/Delrin Ferule

- CONDUIT CONNECTION: 1/2" MNPT
- STEM: 1/2" DIA, SS, OAL equals L1 plus
- FLOAT: 1.3" x 1.6" (1513) SS  SS Clips

SWITCH RATING: 20 Watts, SPST (L6 switch is 10 watts SPDT when shared float with L5)
WIRING: 25 ft Cable
L6 _____ % _________" Return Pump Start, N.O. Violet and White

- L5 _____ % _________" High Level, N.C. Gray (Black common)
- L4 _____ % _________" Pump Stop N.C. Orange (Black Common)
- L3 _____ % _________" Return Pump Stop, N.O. (Blue and Brown)
- L2 _____ % _________" Pump Start, N.O. Yellow (Black Common)
- L1 _____ % _________" Low Level, N.O. Red (Black Common)

WIRING CONFIG: L1, L2, L4  L5 share comm. black wire

- L3 and L6 wired individually
- Note: L5  L6 share a float when less then 2" separation
- Note: Dimensions are measured at full extension

More Information
DAY TANK RETURN PUMP LEVEL SENSOR
RPS-48-2-SS
DAY TANK RETURN PUMP LEVEL SENSOR - STAINLESS STEEL 316 CONSTRUCTION

More Information
FUEL TANK HIGH LEVEL SENSOR IS A SINGLE POINT FLOAT WITH A NORMALLY CLOSED CONTACT THAT PROVIDES CONTINUOUS COMMUNICATIONS TO THE MONITORING DEVICE. THE HIGH LEVEL SENSOR IS MADE OF STAINLESS STEEL CONSTRUCTION PRE-MOUNTED TO A 2" STAINLESS STEEL TANK ADJUSTABLE MOUNT. THE SENSOR IS SIZED ACCORDANTLY TO FIT YOUR TANK AND TO BE ALARMED AT TYPICALLY 90% OR 95% OF YOUR TANK'S CAPACITY.

More Information
LEAK SENSOR (Brass)
LK-750 Brass
Brass Leak Sensor with 25' Teflon Cable
Alternative Materials are available upon request

Stainless Steel
Protection Shroud

Brass
Weighted Collar

PVC
Customized lead length

Polypropylene
Magnet for shavings collection
  More Information
LEAK SENSOR (SS)
LK-750 SS
LPS-750-SS
Specifications

- Stem Material: Stainless Steel
- Float Material: Stainless Steel
- Maximum Temperature (F): 300 F
- PSI @ 70 Degrees F: 800 PSI
- Minimum Liquid Specific Gravity: .7
- Switch Max Wattage Rating at 250V: 50 Watt
- Leads: 24" PVC

More Information
**LPS-FLOW-1-600**

1INCH IN LINE FLOW SWITCH

LPS-600 Series  No Moving Part, Thermal Dispersion Flow Switch
Flow Rate Settings: 0.1 GPM to 11 GPM (0.5 LPM to 41 LPM)
Port Size: 1/2˝&#733; to 1-1/2˝&#733; (NPT or G thread)
Setting Type: Fixed

**BASIS OF OPERATION**

The LPS-600 series uses proven thermal dispersion technology to provide a robust no moving part flow switch even without filtration. The solid state sensor is compatible with both conductive and non-conductive fluids. Suitable for fluids with particulates or slurries, and is immune to changes in media viscosity. The straight through switch is designed for a long life and can be mounted in any orientation and can handle a wide range of flow rates. No moving parts means years of reliable service.

**Calorimetric Principle/Thermal Dispersion**

The operating principle of the LPS-600 flow switch is based on the calorimetric principle. The LPS-600 uses the cooling effect of a flowing fluid or gas to monitor the flow rate. The amount of thermal energy that is removed from the tip determines the local flow rate. This temperature-based operating principle can reliably sense the flow of virtually any liquid or gas.

The sensor tip of the LPS-600 flow sensor houses two transistors and a heater element. One transistor is located in the sensor tip, closest to the flowing fluid. This transistor is used to detect changes in the flow velocity of the liquid. The second transistor is bonded to the cylindrical wall and is a reference for ambient fluid conditions.

In order to make the sensor sense flow, it is necessary to heat one of the transistors in the probe. When power is applied, the tip of the probe is heated. As the fluid starts to flow, heat will be carried away from the sensor tip. Cooling of the first transistor is a function of how fast heat is conducted away by the flowing liquid. The difference in temperature between the two transistors provides a measurement of fluid velocity past the sensor probe. When fluid velocity is high, the temperature differential is small. As fluid velocity decreases, there is an increase in temperature differential.

[More Information]
PIPING SUMP SENSOR - SINGLE LEVEL STAINLESS
SENSOR-SUMP

More Information
The Submersible Level Transmitter (SLT) is specially designed to provide the convenience of direct submergence in many types of liquid for quick, accurate and reliable level measurement.

The SLT provides a lower cost, lighter weight option for submersible level applications. The simple design and rugged construction of this solid state instrument provide long lasting service with virtually no maintenance at a high rate of accuracy. This design provides for excellent linearity and repeatability, low hysteresis and long term stability.

The SLT is easy to install. All the electronics are mounted in a submersible 316 stainless steel housing.

Features:

- Provides superior measurement accuracy over ranges of 1 to 144
- Repeatability as small as 1/100 of an inch
- Low cost (less that 50% compared to magnetostrictive probe technology)
- Solid state semiconductor sensor for accuracy and reliability
- Lightweight and compact size
- Rugged 316 stainless steel housing with excellent environmental protection
- Advanced digital compensation
- Easy to install and use
- Optional temperature measurement capability
- Vented to the atmosphere through the surface end of the cable
- Reverse polarity and surge protected 2 wire, 4 to 20 mA output standard; other outputs available

More Information
ANTI SIPHON VALVE (Brass)

ASV-BR000
Anti-Siphon Valve (BRASS)

- Size 1/4 inch NPT MxF connections
- Inexpensive
- Quick and easy to install.
- No electric required
- Eliminates all flow restrictions
- Tamper-proof construction

This is a poppet (piston) and spring type anti-siphon valve where the spring constantly opposes the pressure acting against the piston which seals off the product inlet port. When loss of product pressure in the product line, the Anti-Siphon Valve opens up to STOP the tank from being able to siphon. Spring Range: 2 psig / 0.138 barg

- Body: Brass
- Poppet/Guide Assembly: Brass
- Seat (wetted): Viton
- Spring: 302SS

More Information
ANTI SIPHON VALVE (SS302)

ASV-SS302

Anti-Siphon Valve(STAINLESS STEEL 302)

- Size 1/4 inch NTP MxF connections
- In expensive
- Quick and Easy to install.
- No electric required
- Eliminates all flow restrictions
- Tamper-proof construction

This is a poppet (piston) and spring type anti-siphon valve where the spring constantly opposes the pressure acting against the piston which seals off the product inlet port. When loss of product pressure in the product line, the Anti-Siphon Valve opens up to STOP the tank from being able to siphon. Spring Range: 2 psig / 0.138 barg

- Body: 302SS
- Poppet/Guide Assembly: 302SS
- Seat (wetted): Viton
- Spring: 302SS

More Information
ANTI SIPHON VALVE (SS316)
ASV-SS316
Anti-Siphon Valve(STAINLESS STEEL 316)

- Size 1/4 inch NTP MxF connections
- Inexpensive
- Quick and easy to install.
- No electric required
- Eliminates all flow restrictions
- Tamper-proof construction

This is a poppet (piston) and spring type anti-siphon valve where the spring constantly opposes the pressure acting against the piston which seals off the product inlet port. When loss of product pressure in the product line, the Anti-Siphon Valve opens up to stop the tank from being able to siphon. Spring Range: 2 psig / 0.138 barg

- Body: 302SS
- Poppet/Guide Assembly: 302SS
- Seat (wetted): Viton
- Spring: 302SS

More Information
CLASS 1 DIV 1 EXPLOSION PROOF FIRE RATED FLEX CABLE
EXP-MI

This UL approved cable is manufactured from completely inorganic material. The copper sheath and conductors, insulated with magnesium oxide ensure that the cable is able to withstand the effects of fire and is fully usable afterwards. The cable system provides a simple solution to many difficult wiring problems and makes for a dependable and permanent installation for virtually all types of electrical circuits.

The benefits are:

- The copper cable sheath meets NEC grounding requirements.
- Suitable for 300 and 600 volt applications.
- Pressure tested to 2000 psi.
- The cable complies with Articles 330, 500 and 501 and all other applicable provisions of the National Electric Code.
- To produce assemblies, the cable is cut to the desired length, pigtails are brazed on and terminated with union type glands with male NPT threads.
- Each cable is color coded to match the equipment that it is connecting to.
- No need for expensive sealoffs and ericsons.
- The cable is typically less expensive that two explosion proof junction boxes, 2 ericsons and two sealoffs.
- The cables eliminate the need for expensive labor.
- An untrained handyman could install this conduits cabling system.
- This UL approved Class 1, Div 1, Groups B, C, D Very cost effective cabling system is all you will ever need.

Request a quote today!

More Information
Hazardous Location Conduit 3/4 Outlet Box

- Designed for hazardous and nonhazardous wet locations, indoors or outdoors, where flammable gases/vapors or combustible dusts may be present.
- UL Listed.
- Aluminum Polymer Enamel Finish, Number of Knockouts (5) 3/4 In, Material Cast Aluminum, For Use with Hazardous Location, Diameter 4 1/4 In, Height 2 3/4 In, Includes 3 Closure Plugs
- Suitable for Class 1, Div 1, Group B, C, D Locations

More Information
ACCESSORIES -/- Emergency Phones

Emergency Phone
K-1900-2

Viking Economical And Vandal Resistant Hot-Line Phone Red
These phones are programmable to dial a 1-32 digit telephone number each time the phone’s handset is lifted. The products may be programmed to Touch Tone or pulse dial and will not dial on incoming calls.

- Telephone line powered
- Hearing aid compatible amplified handsets
- Rotary handset volume control
- 1 - 32 digit programmable speed dial number
- Touch Tone and 10/20 pps pulse dialing
- Non-volatile E2 memory (no batteries required)
- Restricts fraudulent calls from hand held dialers
- Color: Red
- Optional Q170600 ringer (Fax Back Doc 845)
- Operates on a C.O. line or analog PABX/KSU extensions
- Ring detection (will not dial on incoming calls)
- Programmable security code to enter programming mode
- Touch Tone programmable K-1900-6 fits standard 500, 554, 2500 and 2554 set phones

Specifications:

- Power: Telephone line powered (20V DC/18mA minimum)
- Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity
- Shipping Weight: 1.36 Kg (3 lbs)
- Dimensions: 102mm x 178mm x 229mm (4.0 x 7.0 x 9.0)
- Connections: RJ11

More Information
This is some Serious Surge Protection suitable for the toughest locations. The IPC-0110 2 wire device is 120 singles phase and is housed in a Relay enclosure. Component Selection uses the highest quality of components available. All Components are designed for the voltage applications specified. All units use a (hybrid) multiple component circuit, not just stand alone MOV’s.

- Component Assembly All Units are hand-made in the USA using open air PCB construction.
- No Ground integrity required Phase to ground or neutral to ground suppression requires a good ground, and can also create a ground fault and touch safety hazard.
- Function Indicators with safety fusing All suppression manufactured have function indicators and fusing to insure safety and reliability.
- Reputable Company that is Engineer driven that does not dabble in any business that makes money. Is dedicated to its customers and the power quality industry.
- Lead Wire All units manufactured are available with leadwires designed specifically for that application, insuring performance integrity.
- Enclosure All units are constructed in a non-conductive enclosure to assure safety and are non-corrosive.
- Coatings and Markings All units subject to a corrosive environment are painted with a catalyst paint to prevent chafing and deterioration of the enclosure. Only Silk screening is used for identification and pertinent information to insure a long reliable life.
- Competitively priced All products are priced at much less than our competitors if you compare apples to apples.
- Warranty The MV-Series carries a full five-year, unconditional warranty.

More Information
This is some Serious Surge Protection suitable for the toughest locations.
The MV-0100 3 wire device is 120/240 singles phase and is housed in a NAMA 4x enclosure.
Component Selection uses the highest quality of components available. All Components are designed for the
voltage application specified. All units use a (hybrid) multiple component circuit, not just stand alone MOV's.

- Component Assembly All Units are hand-made in the USA using Open air PCB construction.
- No Ground integrity required Phase to ground or neutral to ground suppression requires a good ground, and
can also create a ground fault and touch safety hazard.
- Function Indicators with safety fusing All suppression manufactured have function indicators and fusing to
insure safety and reliability.
- Reputable Company that is Engineer driven that does not dabble in any business that makes money. Is
dedicated to its customers and the power quality industry.
- Lead Wire All units manufactured are available with lead wires designed specifically for that application,
insuring performance integrity.
- Enclosure All units are constructed in a non-conductive enclosure to assure safety and are non-corrosive.
- Coatings and Markings All units subject to a corrosive environment are painted with a catalyst paint to prevent
chafing and deterioration of the enclosure. Only Silk screening is used for identification and Pertinent information
to insure a long reliable life.
- Competitively priced All products are priced at much less than our competitors if you compare apples to apples.
- Warranty The MV-Series carries a full five-year, unconditional warranty.

More Information
ACCESSORIES -/- Service Parts

4-20mA I/O Card (Smart Controllers)
F205-4AD2DA

205 PLC - 250-1 POSSESSOR, Ethernet Communication Module for DL205 PLC systems. Supports master slave communication, 10/100Mb auto-detect, TCP/IP, UDP/IP, IPX, and Modbus TCP application layer protocol.

More Information
4-20mA I/O Card (Smart Controllers)
F205-4AD2DA

205 PLC - 250-1 POSSESSOR, 4-channel analog input and 2-channel analog output module (sink), 12-bit resolution, range 4-20mA.

More Information
COMMERCIAL CONTROLS -/- Emergency Stop

EMERGENCY STOP - SUPER SAFE - MASTER CONTROL RELAY
MCR-1

Master Control Relay with integrated push to rest button located on the cover of the NEMA 1 rated enclosure. This button integrates with any remote emergency stop button. Systems are rated NEMA 4x and rated for 30 up to 600 VAC, 3 phase with 120 VAC control coil with a maintained twist to release emergency stop cover mounted bottom (60mm).

The system features SUPER SAFE 2-Channel Emergency Stop and Safety Gates Series Specially Designed to protect people and machines in applications with E-stop buttons and safety gates.

- Outputs: 3 N.O. contacts and 1 N.C. contact
- Feedback circuit to monitor external contactors used for reinforcement of contacts
- Overvoltage and short-circuit protection
- Monitored manual restart
- Single and 2-channel operation
- LED indicators for power and state of operation

Additional enclosures available to meet:

- NEMA 1, NEMA 3, NEMA 4, NEMA 7/9

Additional rating available:

- 20 AMPS - 90 AMPS

Additional Control Coils:

- 24 VDC
- 240 VAC

Additional buttons:

- Momentary push buttons
- Keyed to release push button
- Illuminated push button

Additional feature available:

- Push to engage momentary button (remote or local)
- Keyed to engage momentary key (remote or local)

More Information
EMERGENCY STOP CONTROL STATION NEMA 12 (METAL BUTTON)

ES-8L2PP180

EMERGENCY STOP CONTROL STATION (METAL BUTTON)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED METAL MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 12

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRADES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 4x (PLASTIC BUTTON)

ES-8L2PP130

EMERGENCY STOP CONTROL STATION (PLASTIC BUTTON)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED PLASTIC MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 4X

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRADES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 4x (STAINLESS STEEL)

ES-8L2PP130

EMERGENCY STOP CONTROL STATION (STAINLESS STEEL)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED PLASTIC MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 4X

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRADES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 7/9 (EXPLOSION PROOF)
CP-ESTOP-EXP
EMERGENCY STOP CONTROL STATION (NEMA 7/9)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 60MM DIAMETER RED METAL MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 7/9

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 1 - DIVISION 1, CLASS 1 - DIVISION 2, CLASS 2 - DIV 2, GROUPS B, C, D

More Information
Explosion-Proof LED Warning Light

27XL-120-240

Explosion-Proof LED Warning Lights with XLT® trade; Produce 60 High-Intensity Flashes Per Minute. These highly durable lights are made with a high-intensity LED array designed to meet the needs of industrial users. Ideal for use in oil rigs, mines, refineries and chemical plants. Configurable to steady burning state or flashing mode. Low in-rush circuitry design provides greater compatibility with factory automation systems. Powder epoxy finish is applied over copper-free aluminum housing. All exposed hardware is 316 grade stainless steel.

120-240 VAC model. Colored dome is available in four colors. UL listed. 5 Year Warranty. XLT® trade; Technology 120-240 VAC Flashes 60 FRM Five lens colors (I have 3 Red and 2 Green for sale) 60,000 hour LED 3/4 inch pendant mount standard, other options available Dome guard optional Type 4X, IP66 enclosure Marine Listed UL and cUL Listed. Federal Signal's Model 27XL explosionproof LED light with XLT® trade; produces 60 high intensity flashes per minute. This warning light operates on 120-240VAC 50/60Hz and is UL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class I, Division 2, Groups A, B; and Class III. The 27XL is also Marine Rated. The 27XL features a standard low inrush circuitry design that provides greater compatibility with factory automation control systems and less electrical interference with inrush sensitive devices. The 27XL is Type 4X rated; constructed to IP66. Corrosion resistance is achieved with a powder epoxy finish applied over the copperfree aluminum housing. All exposed hardware is 316 grade stainless steel.

A pendant mount is supplied and a ceiling mount and 90 degree wall mount are available options. For easy installation, the mounting box is first installed and the fixture is then threaded onto the mounting box, making the electrical connection. Electrical continuity is made when five threads are engaged. 

Explosion-Proof LED Warning Lights with XLT® trade; Produce 60 High-Intensity Flashes Per Minute. These highly durable lights are made with a high-intensity LED array designed to meet the needs of industrial users. Ideal for use in oil rigs, mines, refineries and chemical plants.

- Configurable to steady burning state or flashing mode.
- Low in-rush circuitry design provides greater compatibility with factory automation systems.
- Powder epoxy finish is applied over copper-free aluminum housing.
- All exposed hardware is 316 grade stainless steel.
- 120-240 VAC model.
- Colored dome is available in four colors.
- UL listed.
- 5 Year Warranty.

XLT® trade; Technology 120-240 VAC Flashes 60 FRM Five lens colors. 60,000 hour LED 3/4 inch pendant mount standard, other options available Dome guard optional Type 4X, IP66 enclosure Marine Listed UL and cUL Listed. Federal Signal's Model 27XL explosionproof LED light with XLT® trade; produces 60 high intensity flashes per minute. This warning light operates on 120-240VAC 50/60Hz and is UL Listed for Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class I, Division 2, Groups A, B; and Class III. The 27XL is also Marine Rated. The 27XL features a standard low inrush circuitry design that provides greater compatibility with factory automation control systems and less electrical interference with inrush sensitive devices.
The 27XL is Type 4X rated; constructed to IP66. Corrosion resistance is achieved with a powder epoxy finish applied over the copper-free aluminum housing.

All exposed hardware is 316 grade stainless steel. A pendant mount is supplied and a ceiling mount and 90 degree wall mount are available options. For easy installation, the mounting box is first installed and the fixture is then threaded onto the mounting box, making the electrical connection. Electrical continuity is made when five threads are engaged.

More Information
Lighting Controls
CP-LIGHT-CUS
There are many cost effective ways to handle the fuel system lighting controls. Lighting can be added to just about and control panels you choose.

More Information
COMMERCIAL CONTROLS -/- Main Tank

[Image 28x714 to 568x769]

(RA1-24) REMOTE ALARM, SINGLE POINT 24VDC
RA1-120
REMOTE SINGLE POINT (EXAMPLE HIGH LEVEL) ALARM WITH STROBE, 100DB ALARM AND ACKNOWLEDGEMENT SWITCH.

THIS SINGLE POINT REMOTE ALARM CAN BE USED FOR MANY PURPOSES:

· TANK HIGH Alarm LEVEL
· TANK HIGH WARNING LEVEL
· TANK LOW WARNING LEVEL
· TANK LOW ALARM LEVEL
· TANK LEAK ALARM
· EMERGENCY STOP DEVICE ACTIVATED
· ANY REMOTE SIGNAL MONITORING

SPECIFICATIONS:

· 24VDC POWER
· NEMA 4X ENCLOSURE
· UL508A LISTED
· RATED FOR CLASS 2 LOCATIONS

AVAILABLE OPTIONS:

· 120VAC
· ADDITIONAL SIGNAL POINTS
· STAINLESS STEEL ENCLOSURE/
· EXPLOSION PROOF ENCLOSURE
· INTRINSICALLY SAFE BARRIERS

More Information
FOR OMNTEC OEL8000 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE OEL 8000 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE.

THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

· NEMA 4X 24*24*8 SS304 ENCLOSURE
· MODIFIED BACK PANEL ENCLOSURE
· INTEGRATED WINDOW KIT
· 80 W HEATER AND THERMOSTAT
· PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

· NEMA 4X STAINLESS STEEL 304
· SUITABLE FOR OUTDOOR USE
· SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
· SUITABLE FOR HIGH CORROSION AREAS
· SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-OEL8000-2-HL

FOR OMNTEC OEL8000 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE OEL 8000 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE. AN INTERNAL LIGHT AND DOOR SWITCH IS ALSO INSTALLED TO ENSURE 24/7 OPERATIONS. THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

- NEMA 4X 24*24*8 SS304 ENCLOSURE
- MODIFIED BACK PANEL ENCLOSURE
- INTEGRATED WINDOW KIT
- 80 W HEATER AND THERMOSTAT
- INTERNAL LIGHT WITH DOOR SWITCH
- PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

- NEMA 4X STAINLESS STEEL 304
- SUITABLE FOR OUTDOOR USE
- SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
- SUITABLE FOR HIGH CORROSION AREAS
- SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-VR-300-H  
ATG-ENC-VR-3  
ATG-ENC-OEL8000-2-H  
FOR VEEDE-ROOT TLS 300 NEMA 4X STAINLESS STEEL ENCLOSURE.

THE VEEDE-ROOT TLS300 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE. THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

· NEMA 4X 24"x24"x8 SS304 ENCLOSURE  
· MODIFIED BACK PANEL ENCLOSURE  
· INTEGRATED WINDOW KIT  
· 80 W HEATER AND THERMOSTAT  
· PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

· NEMA 4X STAINLESS STEEL 304  
· SUITABLE FOR OUTDOOR USE  
· SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS  
· SUITABLE FOR HIGH CORROSION AREAS  
· SUITABLE FOR COLD WEATHER LOCATIONS

More Information
ATG-ENC-VR-300-HL
ATG-ENC-VR-3
ATG-ENC-VR-300-HL
FORVEEDER-ROOT TLS300NEMA 4X STAINLESS STEEL ENCLOSURE.

THE VEEDER-ROOT TLS300 PANEL IS NEMA 1 RATED FOR INDOOR USE ONLY. WHEN THE OEL8000 PANEL IS REQUIRED TO BE INSTALLED OUTSIDE A NEMA 4 RATED ENCLOSURE IS REQUIRED. WHEN THE ELEMENTS ARE HARSH IT IS BEST TO INSTALL THE OEL 8000 IN A NEMA 4X ENCLOSURE WITH AN INTERNAL HEATER SYSTEM. AN INTEGRATED WINDOW KIT ON THE ENCLOSURE MUST BE INSTALLED FOR VISUAL INSPECTION AND EVERY DAY USAGE. AN INTERNAL LIGHT AND DOOR SWITCH IS ALSO INSTALLED TO ENSURE 24/7 OPERATIONS.

THE ENCLOSURE COMES WITH PREINSTALLED CONDUITS AND WIRING INSIDE THE ENCLOSURE FOR EASY INSTALLATION. TYPICALLY NO PENETRATIONS IN THE STAINLESS STEEL ENCLOSURE ARE REQUIRED.

SYSTEM BENEFITS:

· NEMA 4X 24"24"8 SS304 ENCLOSURE
· MODIFIED BACK PANEL ENCLOSURE
· INTEGRATED WINDOW KIT
· 80 W HEATER AND THERMOSTAT
· INTERNAL LIGHT WITH DOOR SWITCH
· PREINSTALLED ELECTRICAL CONDUITS INSIDE ENCLOSURE

SPECIFICATIONS:

· NEMA 4X STAINLESS STEEL 304
· SUITABLE FOR OUTDOOR USE
· SUITABLE FOR CLASS 2 DIVISION 2 LOCATIONS
· SUITABLE FOR HIGH CORROSION AREAS
· SUITABLE FOR COLD WEATHER LOCATIONS

More Information
LIQUID LEVEL MONITOR - LLM-2 (2 Point)

Liquid Level Monitor and leak-detection system provides continuous, accurate monitoring in a variety of applications. Typical applications are storage tanks, sumps, dry interstitial spaces and dispenser pans.

The Liquid Level Monitor - LLM-2 (2 Point) system can be used to monitor a wide variety of locations. The LLM-2 you can choose two for the standard list or you can tell us what type of location (or switch) you would like to monitor.

A Standard List of Points To Monitor are:

- Over Fill Alarm
- High High Level Alarm
- High Level Alarm
- High Level Warning
- Delivery Needed Warning
- Low Level Warning
- Low Level Alarm
- Tank Leak Alarm
- Piping Sump Leak Alarm

Specifications:

- NEMA 4x Enclosure - Suitable for Outdoor and High Corrosive Locations
- Suitable for Combustible products (Flammables Available Upon Request)
- Class 2, Div 2 Locations (Class 1, Div 1 Available Upon Request)
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

FOR GASOLINE OR FLAMMABLE CLASS 1 PRODUCTS AN IS-SAFE PACK MUST BE ADDED.

More Information
POWER FILL

SFC

The Power Fill system for the transfer of fuels from gravity trucks to above ground storage tanks and control of filling operations to prevent overfill. The system allows for draining of the truck delivery hose. The Power Fill provides a ground level connection of the full hose, and captures spills that may occur at the fill point during filling operations. The Smart Filler includes a high vallum fuel transfer pump and intelligent pump controls.

The Power Fill:

- Freestanding, pad mountable, open construction pumpset with weatherproof and lockable fill box with 7 gallon spill containment sump and weatherproof and lockable control box 2", 3" or 4" fittings
- Quick disconnect hose coupling with dust plug Inlet shutoff valve
- Check valve and Ball valve
- Spill sump drain valve
- High capacity transfer pump
- Ground stud
- Couplers and adapter

Controller:

- Level transmitter for installation in 2" tank fitting minimum
- High Level and Tank Leak visual alarms
- Audible alarm horn activated by alarms above
- Power Available indicator
- Emergency Stop Switch
- Control Power On-Off switch (keyed)
- Pump Start/Stop pushbuttons
- Top-off/hose drain mode pushbutton
- Pump starter and Overload
- NEMA 4X control enclosure (fuel oil version) Explosion proof control enclosure (gasoline version Optional)

Multiple Tank Power Fill (optional):

- The operator selects the tank to be filled with automatic lockout of off-line tank(s) Sophisticated interlocks prevent inadvertent filling of a non-selected tank
- Tank level indicators
- Electrically operated shut-off valves for each tank, shipped loose for installation at the inlet of each tank.
- Automatic pump shutdown

Performance:

[] 5HP 3 Phase Pump with 3" Pipe Rated for 200 GPM
[] 3HP 3 Phase Pump with 2" Pipe Rated for 150 GPM
EMERGENCY STOP CONTROL STATION NEMA 12 (METAL BUTTON)

ES-8L2PP180

EMERGENCY STOP CONTROL STATION (METAL BUTTON)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED METAL MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 12

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRADES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 4x (PLASTIC BUTTON)

ES-8L2PP130

EMERGENCY STOP CONTROL STATION (PLASTIC BUTTON)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED PLASTIC MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 4X

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRADES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 4x (STAINLESS STEEL)
ES-8L2PP130

EMERGENCY STOP CONTROL STATION (STAINLESS STEEL)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 40MM DIAMETER RED PLASTIC MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 4X

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 2, DIVISION 2, GROUPS B, C, D

ADD TO SHOPPING CART TO SEE THE AVAILABLE OPTIONS AND UPGRDES FOR THIS PRODUCT.

More Information
EMERGENCY STOP CONTROL STATION NEMA 7/9 (EXPLOSION PROOF)

CP-ESTOP-EXP

EMERGENCY STOP CONTROL STATION (NEMA 7/9)

COMPLETE CONTROL STATION, WHITE ENCLOSURE, OPERATOR 60MM DIAMETER RED METAL MUSHROOM HEAD EN418 COMPLIANT PUSH BUTTON, MAINTAINED, TWIST TO RELEASE, SINGLE N.C. 10 AMP CONTACT.

ENCLOSURE: NEMA 7/9

SPECIFICATIONS: MEETS NEC AND NFPA REQUIREMENTS, BUILD TO UL STANDARDS, SUITABLE FOR CLASS 1 - DIVISION 1, CLASS 1 - DIVISION 2, CLASS 2 - DIV 2, GROUPS B, C, D

More Information
KEY SWITCH (ON/OFF) EXP

EOP-KEY-2P

Explosion Proof Keyed operator station in a single gang explosion proof enclosure. When the key is in the ON position the key can not be removed.

More Information
START/STOP STATION-EXP
FXCS-5B4
Hazardous Area Control START - STOP Station

- For use in areas where flammable gases or combustible dusts may exist.
- (Locations defined as hazardous in the NEC: Class 1 or 2; Class II; or Class III, Division 1 or 2.)
Factory-sealed sealing plate has a molded gasket for raintight NEMA 3 construction, and is attached to the operator cover for easy wiring and assembly. UL Listed and CSA Certified.
- Cast-aluminum cover and body
- Stainless steel bolts are captivated to prevent loss

Control Station. Hazardous Location, NEMA Type 3R, 7 And 9, Momentary, 1NO, 1NC Contact Type, Contact Rating 1.2A @600VAC, 1.5A @480VAC, 3.0A @240VAC, 6.0A @120VAC, Start/Stop Legend Plate, Hub 3/4 In, UL, CSA Standards, Cover and Body Material Cast Aluminum, For Use In Areas Where Flammable Gases Or Combustible Dusts May Exist Resulting In A Class I, Division 1 Or 2 Or Class II Or Class III Division 1 Or 2 Hazardous Location, Not For Direct Starting Or Stopping Of Motors

More Information
**DUPLEX MANUAL MOTOR STARTER W/ START STOP CONTROLS**

MMS2-N4X

Duplex Manual Motor Starter w/ Selector Switch, Start Stop Controls

The Manual Motor Starter Controls is all you will need for your basic pump and more technical pump control applications. The system is designed to integrate most pumps in our industry. From submersible, centrifugal, positive displacement, or vane pump we handle them all.

Standard features are:

- Single input power connection with main power disconnect.
- Integrates with emergency stop and fire suppression control systems.
- Controls electric anti-siphon devices.
- Motor starter control and overload protection ranging from (1/3 - 25 hp motors).
- Surface mounted Pump On LED indicator light for each motor.
- Surface mounted Pump Selector Switch
- Surface mounted Start and Stop buttons.
- Surface mounted Emergency Stop button.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Available Options:

- Nema 7 enclosure suitable for outdoor and high corrosion areas. Suitable for class 1, division 1, groups B, C, D.
- Nema 4x enclosure suitable for outdoor and high corrosion areas. Suitable for class 2, division 2
- No Surface mounted Start and Stop buttons.
- No Surface mounted Emergency Stop button.

Additional Power Options are:

- 120 VAC 1 phase
- 208 VAC 3 phase
- 230 VAC 3 phase
- 415 VAC 3 phase
- 460 VAC 3 phase
- 24 VDC

UL 508A listed and meets NEC (NPFA70) and NFPA 30, 30A requirements.

[More Information]
MANUAL MOTOR STARTER W/ START STOP CONTROLS

The Manual Motor Starter w/ Start Stop Controls is all you will need for your basic pump and more technical pump control applications. The system is designed to integrate most pumps in our industry. From submersible, centrifugal, positive displacement, or vane pump we handle then all.

Standard features are:

- Single input power connection with main power disconnect.
- Nema 7 enclosure suitable for hazardous areas.
- Nema 4x enclosure suitable for outdoor and high corrosion areas.
- Integrates with emergency stop and fire suppression control systems.
- Controls electric anti-siphon devices.
- Motor starter control and overload protection ranging from (1/3 - 25 hp motors).
- Surface mounted Start and Stop buttons.
- Surface mounted Pump On LED indicator light.
- Simple pre-engineered wiring diagrams Available for all pumps and dispensers in the industry.

Specifications:

Power requirements: Power input: 220/230 VAC 50/60 Hz. 1 phase, 30 amps. Neutral and ground are required.

- Enclosure: Nema 7 Explosion Proof (suitable outdoor and high corrosion areas).
- UL listed and meets NEC (NPFA70) and NFPA 30A requirements. Suitable for class 1, division 1, groups B, C, D.
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

Additional Enclosures Options are:

- Enclosure: Nema 4x (suitable outdoor and high corrosion areas) Suitable for class 2, division 2.
- UL 508A listed and meets NEC (NPFA70) and NFPA 30A requirements.

Additional Power Options are:

- 120 VAC 1 phase
- 208 VAC 3 phase
- 230 VAC 3 phase
- 415 VAC 3 phase
- 460 VAC 3 phase
- 24 VDC

UL 508A listed and meets NEC (NPFA70) and NFPA 30, 30A requirements.

More Information
COMMERCIAL CONTROLS -/- Digital/Modbus Converter

MODBUS SIGNAL CONVERTER 120VAC

Modbus/120VA

Monitor up to 8 24VDC digital inputs and Converts them 8 Modbus Outputs. Great for all applications ranging from monitor conditions of a fire suppression system to leak sensors. This one of a kind converter works off of 120VAC and is housed in a NEMA 4x enclosure.

More info coming soon. Call 315-403-9985 or email Joe@petropanels.com for more information.

More Information
MODBUS SIGNAL CONVERTER 24VDC

Modbus/24VDC

Monitor up to 8 24VDC digital inputs and converts them to Modbus Outputs. Great for all applications ranging from monitoring conditions of a fire suppression system to leak sensors. This one-of-a-kind converter works off of 24VDC and is housed in a NEMA 4x enclosure.

More info coming soon. Call 315-403-9985 or email Joe@petropanels.com for more information.

More Information
This is some Serious Surge Protection suitable for the toughest locations.
The MV-0100 3 wire device is 120/240 singles phase and is housed in a NAMA 4x enclosure.
Component Selection uses the highest quality of components available. All Components are designed for the voltage application specified. All units use a (hybrid) multiple component circuit, not just stand alone MOV's.

- Component Assembly All Units are hand-made in the USA using Open air PCB construction.
- No Ground integrity required Phase to ground or neutral to ground suppression requires a good ground, and can also create a ground fault and touch safety hazard.
- Function Indicators with safety fusing All suppression manufactured have function indicators and fusing to insure safety and reliability.
- Reputable Company that is Engineer driven that does not dabble in any business that makes money. Is dedicated to its customers and the power quality industry.
- Lead Wire All units manufactured are available with lead wires designed specifically for that application, insuring performance integrity.
- Enclosure All units are constructed in a non-conductive enclosure to assure safety and are non-corrosive.
- Coatings and Markings All units subject to a corrosive environment are painted with a catalyst paint to prevent chafing and deterioration of the enclosure. Only Silk screening is used for identification and pertinent information to insure a long reliable life.
- Competitively priced All products are priced at much less than our competitors if you compare apples to apples.
- Warranty The MV-Series carries a full five-year, unconditional warranty.

More Information
Do you have a project and you need some engineering completed? Need a CAD Designer or just someone to CAD project to impress your clients or meet the project specification. How about an installation drawing or an asbiult. Well you have come to the right place. Request a quote today or call 315-403-9985 and ask for engineering.

Let's take it to the next step. Go for CAD to Construction. We are here to assist with that too. Having just about 30 years in the industry no job is to big or to small. Request a quote today or call 315-403-9985 and ask for engineering.

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<td>Emergency Stop</td>
</tr>
<tr>
<td>Explosion-Proof LED Warning Light</td>
<td>Lighting</td>
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<td>Lighting Controls</td>
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<tr>
<td>(RA1-24) REMOTE ALARM, SINGLE POINT 24VDC</td>
<td>Main Tank</td>
</tr>
<tr>
<td>ATG-ENC-OEL8000-2-H</td>
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<tr>
<td>ATG-ENC-OEL8000-2-HL</td>
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<tr>
<td>ATG-ENC-VR-300-H</td>
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<tr>
<td>ATG-ENC-VR-300-HL</td>
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<tr>
<td>LIQUID LEVEL MONITOR - LLM-2 (2 Point)</td>
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</tr>
<tr>
<td>POWER FILL</td>
<td>Main Tank</td>
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<tr>
<td>EMERGENCY STOP CONTROL STATION NEMA 12 (METAL BUTTON)</td>
<td>Operator Stations</td>
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<tr>
<td>EMERGENCY STOP CONTROL STATION NEMA 4x (PLASTIC BUTTON)</td>
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<tr>
<td>EMERGENCY STOP CONTROL STATION NEMA 4x (STAINLESS STEEL)</td>
<td>Operator Stations</td>
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<td>EMERGENCY STOP CONTROL STATION NEMA 7/9 (EXPLOSION PROOF)</td>
<td>Operator Stations</td>
</tr>
<tr>
<td>KEY SWITCH (ON/OFF) EXP</td>
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<tr>
<td>START/STOP STATION-EXP</td>
<td>Operator Stations</td>
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<tr>
<td>DUPLEX MANUAL MOTOR STARTER W/ START STOP CONTROLS</td>
<td>Pump/Motor Starter</td>
</tr>
<tr>
<td>Description</td>
<td>Description</td>
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<tr>
<td>MANUAL MOTOR STARTER W/ START STOP CONTROLS</td>
<td>Pump/Motor Starter</td>
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<tr>
<td>MODBUS SIGNAL CONVERTER 120VAC</td>
<td>Digital/Modbus Con</td>
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<tr>
<td>MODBUS SIGNAL CONVERTER 24VDC</td>
<td>Digital/Modbus Con</td>
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<tr>
<td>MV-0100 120/240</td>
<td>RETAIL CONTROLS</td>
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<td>AUTOCAD SERVICES</td>
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