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**MARK<sup>III+</sup> Diesel Engine Fire Pump Controller**


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**SPECIAL ENCLOSURES**  
**Description**

Option	Description
---	Enclosure, NEMA Type 2 (IEC IP22), Painted Steel (Standard)
-E	Enclosure, NEMA Type 4 (IEC IP66), Painted Steel
-F	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Brushed Finish
-FD	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Brushed Finish
-FDB	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Seam Welded, Brushed Finish
-FDP	Enclosure, NEMA Type 4X (IEC IP66), #316 Stainless Steel, Painted Finish
-FXP	Enclosure, NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish
-G	Enclosure, NEMA Type 12 (IEC IP54), Painted Steel
-T	Enclosure, NEMA Type 3R (IEC IP24), Painted Steel
-U	Enclosure, NEMA Type 3 (IEC IP54), Painted Steel

**ENCLOSURE MOUNTING STANDS**  
**Description**

Option	Description
None	
-N30	Mounting Stand, Painted Steel
-N30FXP	Mounting Stand, #304 Stainless Steel, Painted Finish
-N30F	Mounting Stand, #304 Stainless Steel, Brushed Finish
-N30DP	Mounting Stand, #316 Stainless Steel, Painted Finish
-N30FD	Mounting Stand, #316 Stainless Steel, Brushed Finish

**ANTI-CONDENSATION SPACE HEATERS**  
**Description**

Option	Description
None	
-J	Space Heater, 120V Externally Powered with Circuit Breaker and Thermostat
-K	Space Heater, 120V Externally Powered with Circuit Breaker and Humidistat
-M	Space Heater, 240V Externally Powered with Circuit Breaker and Thermostat
-N	Space Heater, 240V Externally Powered with Circuit Breaker and Humidistat
-JKP	Space Heater, 120V Externally Powered with Circuit Breaker and Thermostat / Humidistat in Parallel
-MNP	Space Heater, 240V Externally Powered with Circuit Breaker and Thermostat / Humidistat in Parallel

**PRESSURE TRANSDUCERS, SOLENOID VALVES, PLUMBING**  
**Description**

Option	Description
---	Wetted Parts including Pressure Sensor and Test Solenoid, 300 PSI (20.4 Bar) Fresh Water
-B1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar) Fresh Water (For Factory Calibration Purposes Only)
-C1	Wetted Parts including Pressure Sensor and Test Solenoid, 300 PSI (20.4 Bar), Sea Water
-D1	Wetted Parts including Pressure Sensor and Test Solenoid, 500 PSI (34.5 Bar), Sea Water
-SP1	Low Suction Pressure Transducer, Fresh Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts
-SP2	Low Suction Pressure Transducer, Sea Water, 0-300 PSI (20.4 Bar) with Visible Indication and Output Contacts

**FOAM PUMP APPLICATIONS**  
**Description**

Option	Description
Required For Foam	
-LRI	Low Foam Level External Input, Visible Indications and Alarm Contacts, Additive with Provisions for Proof Pressure Switch Connection, With Lockout and Remote Alarm Indication For Interlock On (Locked Out)
Required For Foam	
-LK1	Foam Pump Application With Pressure Transducer and Run Test Solenoid Valve
-LK2	Foam Pump Application With Pressure Transducer and Run Test Solenoid Valve, Stainless Steel
-LK3	Foam Pump Application Without Pressure Transducer and Run Test Solenoid Valve
Optional For Foam	
-DVC	Operation, Dump Valve Control

**ALARMS  
Description**

Option	Description
-AC	Extra Alarm Output Contacts, Engine Running (3 Sets)
-AJ	Alarm Output Contacts, Engine Overspeed
-AK	Alarm Output Contacts, Low Oil Pressure
-AL	Alarm Output Contacts, High Water Temperature
-AM	Alarm Output Contacts, Fail To Start
-AN	Alarm Output Contacts, Battery / Charger Failure
-API	Alarm Output Contacts, Main Switch in "Hand"
-AR	Alarm Output Contacts, Main Switch in "Off"
-ASI	Extra Alarm Output Contacts, Main Switch in "Auto"
-ATI	Extra Alarm Output Contacts, Pump Room Trouble <sup>1</sup>
-AU	Alarm Output Contacts, Low Fuel Level
-AV	Alarm Output Contacts, Low Pump Room Temperature <sup>1</sup>
-AW	Alarm Output Contacts, Reservoir Low <sup>1</sup>
-AYI	Configurable Low Suction Pressure Visible/Output Contacts with External Digital Input
-BTC	Alarm Output Contacts, Battery #1 & #2 Failure (Form-C SPDT)(Individual Outputs)
-CFC	Alarm Output Contacts, Battery Charger #1 & #2 Failure (Form-C SPDT)(Individual Outputs)
-CPLI	Alarm, Visible/Output Contacts, Overpressure
-CTSI	Configurable Low Suction Pressure, Visible/Output Contacts with Suction Pressure Transducer
-ECMFR	Alarm Output Contacts, Electronic Engine ECM Failure
-ECMWR	Alarm Output Contacts, Electronic Engine ECM Warning
-EE	Extra Alarm Output Contacts, Engine Trouble (1 Set)
-EF	Extra Alarm Output Contacts, Main Switch Not in "Auto" (1 Set)
-EHI	Alarm Output Contacts, Main Relief Valve Open
-EKI	Alarm, Visible/Output Contacts, Flow Meter On
-GLS	Louver Activation Circuit (Battery Power Specific)
-HRTR	Alarm Output Contacts, High Raw Water Temperature
-LC	Alarm Output Contacts, High Fuel Level <sup>1</sup>
-LEI	Alarm Output Contacts, Fuel Spill
-LETR	Alarm Output Contacts, Low Engine Temperature
-LG	Alarm Output Contacts, Reservoir High <sup>1</sup>
-LRFR	Alarm Output Contacts, Low Raw Water Flow (Clogged Strainer)
-LSPR	Alarm Output Contacts, Low Suction Pressure (at Variable Speed Suction Limiting Engine Controls)
-PE	Alarm Output Contacts, Low System Pressure (Pump On Demand)

## MISCELLANEOUS

Option	Description
-BA	AC Input, 220-240V
-EJA	Provision for 4-20mA Flow Meter Signal Input with Monitoring and Display of Flow (Meter by Others) Do not use with option -EKA
-EKA	Provision for 4-20mA Flow Meter Signal Input with Monitoring and Display of Flow and Adjustable Low and High Alarm Relays (Meter by Others) Do not use with option -EJA
-EL	Series Pumping Operation, High Zone Controller
-EM	Series Pumping Operation, Mid Zone Controller
-EN	Series Pumping Operation, Low Zone Controller
-IEC	Marking, CE with External Wet Parts
-NZ	Input Terminals, Shutdown Interlock
-S	Tropicalization
-USBX	Data Port, External USB
-Y55	Controller Temperature Rating, 55°C (131°F) Ambient Temperature
-XCR	Export Packaging (Wooden Crating to Conform to IPPC Standards)
-ZPM1	Data Port, RS485 Modbus RTU
FTA1100-K7A	Low Fuel Level Switch 1.25" NPT - Field Adjustable from 2.75" to 27.5"
FTA1100-K7B	Low Fuel Level Switch 1.50" NPT - Field Adjustable from 2.75" to 27.5"
FTA1100-K8A	High Fuel Level Switch 1.25" NPT - Field Adjustable from 2.75" to 10.5"
FTA1100-K8B	High Fuel Level Switch 1.50" NPT - Field Adjustable from 2.75" to 10.5"
FTA1100-K26A	Combined High/Low Fuel Level Switch 1.25" NPT - Specify Diameter of Fuel Tank
FTA1100-K26B	Combined High/Low Fuel Level Switch 1.50" NPT - Specify Diameter of Fuel Tank
FTAK21	380-480Volt Operation (Separately Mounted Transformer)

<sup>1</sup> - Initiating switches by others      <sup>2</sup> - Shipped loose for installation by the customer

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