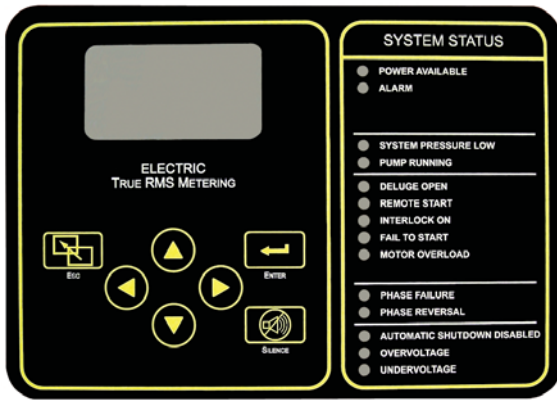


FTA2000 Medium Voltage Electric Fire Pump Controllers Product Description



Description—Firetrol® FTA2000 combined automatic and manual class E2 medium voltage controllers are intended for starting of squirrel cage motors driving listed fire pumps. Maximum ratings are as follows:

Max. HP	3-Phase Voltage
1500	2200 - 2500
2000	3200 - 3500
2500	4000 - 5000
3500	5000 - 7200

Approvals—Firetrol fire pump controllers are listed by Underwriters’ Laboratories, Inc., in accordance with UL218, Standard for Fire Pump Controllers, CSA, Standard for Industrial Control Equipment, and approved by Factory Mutual. They are built to meet or exceed the requirements of the approving authorities as well as NEMA and the latest editions of NFPA 20, Installation of Centrifugal Fire Pumps, and NFPA 70, National Electrical Code.

Standard Features—The following are included as standard with each controller:

- Isolating Switch - NEMA Rating, 7200 Volts, 400 Amps with external operating handle with electrical and mechanical interlocks to prevent opening of the medium voltage compartment door with the isolating switch or the main contactor closed. Interlocks prevent opening the isolating switch with the main contactor closed.
- Vacuum Contactor - NEMA Rating, 7200 Volts, 400 Amps

- Emergency Manual Run Mechanism to mechanically close motor contactor contacts in an emergency condition
- Built-in Start and Stop push-buttons to bypass automatic start circuits
- Normal-Off-Test Selector Switch - Internally mounted for functional test of control system only, requires that isolating switch be open and a separate 120 volt AC power source be supplied.
- Door mounted display/interface panel featuring a 128 x 64 pixel backlit LCD Graphical Display, Membrane Type User Control Push-buttons and easy to read LED Indicators for:
 - POWER AVAILABLE
 - ALARM
 - SYSTEM PRESSURE LOW
 - PUMP RUNNING
 - DELUGE OPEN
 - REMOTE START
 - INTERLOCK ON
 - FAIL TO START
 - MOTOR OVERLOAD
 - PHASE FAILURE
 - PHASE REVERSAL
 - AUTOMATIC SHUTDOWN DISABLED
 - OVERVOLTAGE
 - UNDERVOLTAGE
- Minimum Run Timer / Off Delay Timer
- Daylight Savings Time Option
- Weekly Test Timer
- Elapsed Time Meter
- Digital Pressure Display
- USB Host Controller and Port
- Solid State Pressure Transducer
- Data Log
- Event Log (3000 Events)
- True RMS Metering with simultaneous 3 phase display of amps and volts
- Disk Error message
- Disk Near Full message
- Pressure Error message
- Motor Over 320% message
- Local Start message
- Remote Start message
- Emergency Start message
- Fail To Start message
- Undervoltage message
- Overvoltage message
- NEMA Type 2 enclosure (IEC IP22)
- Suitable for use as Service Equipment

SPECIAL ENCLOSURES

- T NEMA Type 3R (IEC IP22), Painted Steel
- E NEMA Type 4 (IEC IP66), Painted Steel
- F NEMA Type 4X (IEC IP66), #304 Stainless Steel, Unfinished**
- FXP NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish
- FD NEMA Type 4X (IEC IP66), #316 Stainless Steel, Unfinished**
- FDB NEMA Type 4X (IEC IP66), 12 Gauge, Seam Welded, #316 Stainless Steel, Polished and Brushed Finish
- FDP NEMA Type 4X (IEC IP66), #316 Stainless Steel Painted Finish
- G NEMA Type 12 (IEC IP54), Painted Steel
- ** Unfinished (Not painted, polished or brushed).

ANTI-CONDENSATION SPACE HEATERS

- H 120 Volt Space Heater
- J 120 Volt Space Heater With Thermostat
- K 120 Volt Space Heater With Humidistat
- L 240 Volt Space Heater
- M 240 Volt Space Heater With Thermostat
- N 240 Volt Space Heater With Humidistat

PRESSURE TRANSDUCERS

- B 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service
- C 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service
- D 0-600 psi (0-42.25 bar) Pressure Transducer for Copper Corrosive Service

ALARMS

- AC Extra contacts (normally open & normally closed) for remote indication, pump operating
- AF Audible and Visible low pump room temperature alarm
- AG Audible and Visible reservoir low alarm
- AH Audible and Visible low suction pressure alarm
- AM Contacts for remote indication, pump fail to start
- AV Contacts for remote indication, low pump room temperature (Requires option -AF)
- AW Contacts for remote indication, reservoir low (Requires option -AG)
- AY Contacts for remote indication, low suction pressure (Requires option -AH)
- AZ Low pump room temperature switch, mounted and wired

- BW Extra contacts for remote indication, phase failure/phase reversal
- BY Contacts for remote indication, pump overload
- COM Low suction pressure alarm, (Includes selectable auto/manual reset, audible, visible and remote alarms, initiating pressure switch not included)
- CTS Built in Low Suction Pressure Alarm Panel (Includes selectable auto/manual reset, audible, visible and remote alarms and mounted and wired pressure switch)
- EG Audible and Visible relief valve discharge alarm
- EH Contacts for remote indication, relief valve discharge (Requires option -EG)
- EJ Audible and Visible flow meter on alarm
- EK Contacts for remote indication, flow meter on (Requires option -EJ)
- KH Contacts for remote indication, common output for any alarm
- JR Visible jockey pump running indication
- JT Audible and Visible jockey pump trouble indication
- P Built-in alarm system (Includes visible supervisory voltage normal indication and audible pump operating, phase failure and phase reversal indication)
- PE Contacts for remote indication, low system pressure
- PT Built-in alarm system, 220 VAC supervisory power (Includes visible supervisory voltage normal indication and audible pump operating, phase failure and phase reversal indication)

MISCELLANEOUS

- BAT 220-240 Volt Test Circuit
- GZ 50 Hz Operation
- IECI CE Marking (Internal (enclosed) wet parts)
- PY Motor space heater output contacts
- S Tropicalization
- SEI Seismic Certification (in accordance with IBC)
- USBX External USB Port
- ZPA Customized, annual service display message (factory programmed)
- ZPN Serial Modbus RTU over ethernet TCP/IP using 5150 connectivity module
- ZPM Serial Modbus RTU over 2-wire or 4-wire RS485

*Weekly Test Timer - Standard

Emerson Network Power - Global Headquarters

1050 Dearborn Drive
Columbus, OH 43085
Tel +1 614 888 0246

EmersonNetworkPower.com

ASCO Power Technologies - Firetrol Brand Products

111 Corning Road, Suite 120
Cary, NC 27518
Tel +1 919 460 5200 • Fax +1 919 460 5250

Firetrol.com

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