Description – Firetrol® combined automatic and manual Mark II based diesel engine fire pump controllers are intended for starting and monitoring fire pump diesel engines. They are available for use with 12 or 24 volt negative ground systems using lead acid or Nickel-Cadmium batteries. The controller monitors, displays and records fire pump system information.

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* (cUL), 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:
■ Two pole AC line circuit breaker
■ Manual-Off-Auto selector switch
■ Manual test push-button

■ Two manual crank push-buttons
■ Two 10 Amp battery chargers with 4 stage charging cycle, selectable AC voltage (110 / 220), selectable DC voltage (12 / 24), and selectable battery type (Lead Acid, Ni-Cad 9/18 Cell, Ni-Cad 10/20 Cell)
■ Door mounted display/interface panel featuring a 80 Character Vacuum Fluorescent Display, Membrane Type User Control Push-buttons and easy to read LED Indicators
■ *MAIN SWITCH IN AUTO* LED
■ *ENGINE FAIL TO START* LED
■ *CHARGER MALFUNCTION* LED
■ *BATTERY #1 TROUBLE* LED
■ *BATTERY #2 TROUBLE* LED
■ *SYSTEM PRESSURE LOW* LED
■ *ENGINE RUNNING* LED
■ *ENGINE COOLANT TEMP HIGH* LED
■ *ENGINE OIL PRESSURE LOW* LED
■ *ENGINE OVERSPEED* LED
■ *LOW FUEL LEVEL* LED
■ Minimum Run Timer / Off Delay Timer
■ Daylight Savings Time Option
■ Weekly Test Timer
■ Engine Run Time Meter
■ Digital Pressure Display
■ 3.5" 1.44M Floppy Disk Drive (20,000 events)
■ Data Log
■ Event Log (3000 events)
■ Simultaneous Display of Battery Voltages and Charging Rates
■ Disk Error Message
■ Disk Near Full Message
■ Pressure Error Message
■ Fail to Start Message
■ Low Suction Pressure Message
■ Crank Cycle Status Indication (Displays Cranking Battery, Number of Starting Attempts and Crank/Rest Time Remaining)
■ 300 psi (20.7 bars) wet parts (pressure transducer, solenoid valve, plumbing) for fresh water applications
■ High Speed Open Serial Communications Port
■ NEMA Type 2 enclosure

Special Enclosures
-T   NEMA Type 3R (IEC IP14)
-E   NEMA Type 4 (IEC IP 56)
-F   NEMA Type 4X (IEC IP56) #304 Stainless
      Steel
-G   NEMA Type 12 (IEC IP52)

Mounting Legs
-N31   Standard 12" Mounting Legs
-N32   Base Mounting Legs 6"

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, Solenoid Valves, Plumbing
-B   0-600 psi (0-41.4 bars) wet parts for fresh
      water applications
-C   0-300 psi (0-21.1 bars) wet parts for sea
      water/foam or copper corrosive applica-
      tions
-D   0-600 psi (0-41.4 bars) wet parts for sea
      water/foam or copper corrosive applica-
      tions

Alarms
-AC   Additional contacts for remote indica-
        tion, engine running - 2 sets provided
        as standard
-AJ   Contacts for remote indication,
        engine overspeed
-AK   Contacts for remote indication,
        low oil pressure
-AL   Contacts for remote indication,
        high water temperature
-AM   Contacts for remote indication,
        engine failed to start
-AN   Contacts for remote indication,
        battery / charger failure
-AP   Contacts for remote indication,
        main switch in manual
-AR   Contacts for remote indication,
        main switch in off
-AS   Contacts for remote indication,
        main switch in auto
-AT   Contacts for remote indication,
        pump room trouble (common alarm)[1]
-AV   Contacts for remote indication,
        low pump room temperature[1]

-AW   Contacts for remote indication,
        reservoir low[1]
-AY   Contacts for remote indication,
        low suction pressure[1]
-COM   Visible low suction pressure alarm with
        manual reset push-button[1]
-CTS   Built-in low suction pressure alarm
        panel (Includes selectable auto/
        manual reset, audible, visible and
        remote alarms and mounted and
        wired pressure switch)
-EE   Additional contacts for remote indica-
        tion, engine trouble (common alarm) -
        1 set provided as standard
-EF   Additional contacts for remote indica-
        tion, main switch mis-set (common
        alarm) - 1 set provided as standard
-EH   Contacts for remote indication,
        relief valve discharge[1]
-EJ   Visible flow meter on alarm[1]
-EK   Contacts for remote indication,
        flow meter on[1]
-LC   Contacts for remote indication,
        high fuel level[1]
-LD   Visible fuel spill alarm[1]
-LE   Contacts for remote indication,
        fuel spill[1]
-LG   Contacts for remote indication,
        reservoir high[1]
-PE   Contacts for remote indication,
        low system pressure

Miscellaneous
-AZ   Low pump room temperature switch,
        mounted and wired
-BA   220-240 Volt operation
-EL   Series pumping, high zone controller
-EM   Series pumping, mid zone controller
-EN   Series pumping, low zone controller
-S   Tropicalization
-ZPA   Customized, annual service display
        message (factory programmed)
-ZPB   High quality impact printer with auto-
        matic paper take-up mechanism

FTA1100-K1 Low fuel level switch[2]
FTA1100-K21 380-480 volt operation (trans-
        former)[2]
Export packaging

[1] - Initiating switches by others
[2] - Shipped loose for installation by the cus-
      tomer

Firetrol®

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