FTA1300 Wye-Delta, Open Transition Starting Electric Fire Pump Controllers Product Description



Description—Firetrol® FTA1300 Wye-Delta, Open Transition Starting Fire Pump Controllers are used with deltawound squirrel cage motors. FTA1300 controllers are of the open circuit transition type in which the motor circuit is opened during the transition from start to run. The controller monitors, displays and records fire pump system information.

Actuating the controller by the pressure switch, START push-button or deluge valve contact closes the start contactor connecting the motor to the line in the wye connection. The motor will draw approximately 33% of its normal inrush current and develop approximately 33% of its normal starting torque. After a time delay, the motor is automatically reconnected in delta, applying full voltage to the motor windings. These controllers are recommended especially for use with generator sets.

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:

- Voltage surge protector
- Main Disconnect Switch sized for connected motor horsepower and voltage
- Fire pump Circuit Breaker
- Single handle Isolating Disconnect Switch/Circuit Breaker mechanism
- Motor contactor
- 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
- Minimum Run Timer / Off Delay Timer

- Daylight Savings Time Option
- Weekly Test Timer
- Elapsed Time Meter
- 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
 - TRANSFER SWITCH NORMAL (If unit ordered with Automatic Power Transfer Switch)
 - TRANSFER SWITCH EMERGENCY (If unit ordered with Automatic Power Transfer Switch)
 - SYSTEM PRESSURE LOW
 - PUMP RUNNING
 - DELUGE OPEN
 - REMOTE START
 - INTERLOCK ON
 - FAIL TO START
 - MOTOR OVERLOAD
 EMERGENCY ISO SWITCH OFF (If unit ordered with Automatic Power Transfer Switch)
 - PHASE FAILURE
 - PHASE REVERSAL
 - AUTOMATIC SHUTDOWN DISABLED
 - OVERVOLTAGE
- UNDERVOLTAGE
- 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, Volts, Frequency, Pressure and Alarm Messages
- 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 (IEC IP22) enclosure
- Suitable for use as Service Equipment
- Each standard controller comes with user set options for:
 - Interlock Alarm
 Low Pressure Audible
 - Low Suction Pump Run
 - User Defined Input Weekly Test





3FECIA	L ENCLOSURES NEMA Type 3R (IEC IP22), Painted Steel	-BW	Extra contacts for remote indication,
-Ţ	NEMA Type 3R (IEC IP22), Painted Steel NEMA Type 4 (IEC IP66), Painted Steel	D) (Extra contacts for remote indication, phase failure/phase reversal Contacts for remote indication, pump overload Low Suction Pressure Alarm, (Includes selectable auto/manual reset, audible, visible and remote alarms, initiating pressure switch NOT included) Built-in Low Suction Pressure Alarm Panel (Includes selectable auto/manual reset, audible, visible and remote alarms and wired and mounted pressure switch)
-Ė -F	NEMA Type 4 (IEC IP66), Painted Steel	-BY	Contacts for remote indication, pump overload
-F	NEMA Tyʻpe 4X (IEC IP66), #304 Stainless Steel, Unfinished**	-COM	Low Suction Pressure Alarm, (Includes selectable auto/
	Unfinished**		manual reset, audible, visible and remote alarms, initiating
-FXP	NEMA Type 4X (IEC IP66), #304 Stainless Steel, Painted Finish		pressure switch NOT included)
	Painted Finish	-CTS	Built-in Low Suction Pressure Alarm
-FD	NEMA Type 4X (IEC IP66), #316 Stainless Steel,		Panel (Includes selectable auto/manual reset, audible, vis-
	NEMA Type 4X (IEC IP66), #316 Stainless Steel, Unfinished **		ible and remote alarms and wired and mounted pressure
-FDB	NEMA Type 4X (IEC IP66), 12 Gauge, Seam Welded, #316 Stainless Steel, Polished and		34/10(1)
	Welded, #316 Stainless Steel, Polished and	-EG	Audiblé and Visible relief valve discharge alarm
	Brushed Finish	-EH	Contacts for remote indication, relief valve discharge (Re-
-FDP	NEMA Type 4X (IEC IP66), #316 Stainless Steel Painted Finish		quires option -EG) Audible and Visible flow meter on alarm
	Painted Finish	-EJ -EK	Audible and Visible flow meter on alarm
-G	NEMA Type 12 (IEC IP54), Painted Steel inished (Not painted, polished or brushed).	-EK	Contacts for remote indication, flow meter on (Requires
* * Unf	inished (Not painted, polished or brushed).		option -EJ) Contacts for remote indication, common output for any
		-KH	Contacts for remote indication, common output for any
CIRCUI	T BREAKER OPTION		alarm
-N	Intermediate withstand rating 150,000 Amps RMS Sym.	- R - T ->	Visible jockey pump running indication Audible and Visible jockey pump trouble indication Built-in alarm system (Includes visible supervisory voltage normal indication and audible pump operating, phase failure and phase reversal indication)
	150,000 Amps RMS Sym.	- T	Audiblé and Visible jockey pump trouble indication
-P	High withstand rating	-Þ	Built-in alarm system (Includes visible supervisory voltage
	200.000 Amps RMS Svm		normal indication and audible pump operating, phase
Note:	High withstand rating 200,000 Amps RMS Sym Intermediate and High withstand ratings may not be		failure and phase reversal indication)
availab	le for all horsepowers and voltages. Consult factory for avail-	-PE	Contacts for remote indication, low system pressure (pump
ability.			on demand)
ao		-PT	Built-in alarm system, 220 VAC supervisory power (Includes
ANTI-C	ONDENSATION SPACE HEATERS		visible supervisory voltage normal indication and audible
-H	120 Volt Space Heater		pump operating, phase failure and phase reversal
-i `	120 Volt Space Heater With Thermostat		indication)
	The state of the s		,
-K	120 Volt Space Heater With Humidistat		
-k	120 Volt Space Heater With Humidistat 240 Volt Space Heater	MISCELL	ANFOUS
-L	240 Volt Space Heater	MISCELI ED	L ANEOUS Load shed circuits (Selectable power source and adjustable
-L -M	240 Volt Space Heater 240 Volt Space Heater With Thermostat		Load shed circuits (Selectable power source and adjustable
-L	240 Volt Space Heater	ED	Load shed circuits (Selectable power source and adjustable
-L -M -N	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat	ED	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS	ED -EL -EM	Load shed circuits (Selectable power source and adjustable
-L -M -N	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for	ED -EL -EM -EN	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU -B	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for	ED -EL -EM	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for	ED -EL -EM -EN -FZX	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU -B -C	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service	ED -EL -EM -EN -FZX -IEC	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU -B	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for	ED -EL -EM -EN -FZX -IEC	Load shed circuits (Selectable power source and adjustable
-L -M -N PRESSU -B -C	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service	ED -EL -EM -EN -FZX -IEC	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires
-L -M -N PRESSU -B -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service	ED -EL -EM -EN -FZX -IEC -IECI -OSP	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI)
-L -M -N PRESSU -B -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES	ED -EL -EM -EN -FZX -IEC -IECI -OSP	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI)
-L -M -N PRESSU -B -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat IRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0-Generator/Utility emergency source	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization
-L -M -N PRESSU -B -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES	ED -EL -EM -EN -FZX -IEC -IECI -OSP	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization
-L -M -N PRESSU -B -C -D -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1- Bypass Isolation for Generator/Utility emergency source	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization
-L -M -N PRESSU -B -C -D COMBI FTA950 FTA95	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat IRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port
-L -M -N PRESSU -B -C -D -C -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative
-L -M -N -N -PRESSU -B -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -D -C -C -C -D -C -C -C -D -C -C -C -D -D -C -D -D -C -D -D -D -C -D -D -C -D -D -D -D -D -D -D -D -D -D -D -D -D	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative
-L -M -N -PRESSU -B -C -D -C -D -COMBI FTA95(FTA95) ALARM -AC -AF	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller(s) Series pumping, low zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative
-L -M -N -N -B -C -D -C -D -COMBI FTA956 FTA95 FTA95 -AC -AF -AC	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, high zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Con-
-L -M -N -PRESSU -B -C -D -C -D -COMBI FTA95(FTA95) FTA95 -ALARM -AC -AF -AG -AH	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module
-L -M -N -PRESSU -B -C -D -C -D -COMBI FTA95(FTA95) ALARM -AC -AF -AG -AG -AH	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Con-
-L -M -N -PRESSU -B -C -D -C -D -COMBI FTA95(FTA95) FTA95 -ALARM -AC -AF -AG -AH	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm Audible and Visible reservoir low alarm Audible and Visible reservoir low alarm Contacts for remote indication, pump fail to start Contacts for remote indication,	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485
-L -M -N -PRESSU -B -C -D -COMBI FTA95(FTA95) ALARM -AC -AF -AG -AH -AM -AV	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm Audible and Visible reservoir low alarm Audible and Visible reservoir low alarm Contacts for remote indication, pump fail to start Contacts for remote indication,	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485
-L -M -N -PRESSU -B -C -D -C -D -COMBI FTA95(FTA95) ALARM -AC -AF -AG -AG -AH	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1- Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible low suction pressure alarm Audible and Visible low suction pressure alarm Contacts for remote indication, pump fail to start Contacts for remote indication, low pump room temperature (Requires option -AF) Contacts for remote indication, reservoir	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, high zone controller (Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485
-L -M -N -N -PRESSU -B -C -D -COMBI FTA956 FTA95 FTA95 -AC -AF -AG -AH -AW -AV	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1- Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible low suction pressure alarm Audible and Visible low suction pressure alarm Contacts for remote indication, pump fail to start Contacts for remote indication, low pump room temperature (Requires option -AF) Contacts for remote indication, reservoir	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, mid zone controller (s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485
-L -M -N -PRESSU -B -C -D -COMBI FTA95(FTA95) ALARM -AC -AF -AG -AH -AM -AV	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1 - Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible reservoir low alarm Audible and Visible low suction pressure alarm Contacts for remote indication, low pump room temperature (Requires option -AF) Contacts for remote indication, reservoir low (Requires option -AG) Contacts for remote indication, low suction pressure (Re-	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, high zone controller (Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485
-L -M -N -N -PRESSU -B -C -D -COMBI FTA956 FTA95 FTA95 -AC -AF -AG -AH -AW -AV	240 Volt Space Heater 240 Volt Space Heater With Thermostat 240 Volt Space Heater With Humidistat JRE TRANSDUCERS 0-600 psi (0-42.25 bar) Pressure Transducer for Fresh Water Service 0-300 psi (0-21.1 bar) Pressure Transducer for Copper Corrosive Service 0-600 psi (0-42.25 bar) Pressure Transducer for Corrosive Service NED AUTOMATIC POWER TRANSFER SWITCHES 0- Generator/Utility emergency source 1- Bypass Isolation for Generator/Utility emergency source IS Extra contacts (normally open & normally closed) for remote indication, pump operating Audible and Visible low pump room temperature alarm Audible and Visible low suction pressure alarm Audible and Visible low suction pressure alarm Contacts for remote indication, pump fail to start Contacts for remote indication, low pump room temperature (Requires option -AF) Contacts for remote indication, reservoir	ED -EL -EM -EN -FZX -IEC -IECI -OSP -PY -S -SEI -USBX -ZPA -ZPN	Load shed circuits (Selectable power source and adjustable time delay to remove non-critical loads before starting) Series pumping, high zone controller Series pumping, high zone controller (Series pumping, mid zone controller(s) Series pumping, low zone controller 400 VAC Operation (Controller labeled for operation at 380-400 VAC - Use with voltage code FZ) CE Marking with Externally Mounted Wet Parts CE Marking with Internally Mounted Wet Parts OSHPD Seismic Certification (State of California) (Requires Option -SEI) Motor space heater output contacts Tropicalization Seismic Certification (in accordance with IBC) (Note: Not available on model FTA1500) External USB Port Customized, annual service display message (when factory programmed or programmed by Firetrol representative during start-up) Serial Modbus RTU over Ethernet TCP/IP using 5150 Connectivity Module Serial Modbus RTU over 2-wire or 4-wire RS485

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