

CONTROLLER WITH TRANSFER SWITCH

Joslyn Clark Controls Fire Pump Controllers with Automatic Transfer Switch modification "TU" complies with the National Fire Protection Association standard NFPA-20 and are listed by Underwriters' Laboratories. All full service Fire Pump Controllers and Limited Service Controllers may be ordered with an Automatic Transfer Switch.

The Automatic Transfer Switch is housed in a barriered compartment of Fire Pump Controller and Automatic Transfer Switch is factory assembled, wired, tested, and shipped as a single unit.



Fire Pump Controllers with Automatic Transfer Switches provide for power connections to the fire pump motor for the primary power source or an alternate emergency supply. If the primary power supply fails, an automatic transfer is made to the emergency supply. Automatic retransfer to normal power supply will occur after restoration of normal power.

Standard features include green LED for normal power source and red for emergency. Red light and audibly alarm with silence button to monitor the opening of the emergency supply isolation switch. Also, N.O. and N.C. contacts are provided for remote signal of this switch position.

JOCKEY PUMP CONTROLLER



The Jockey pump and controller is an accessory to either a main or a Limited Service pump. Characteristics are not specified by NFPA-20. The Jockey is a very small pump, which automatically maintains stand-by pressure in the fire protection system, to save wear on the main pump. Across-The-Line starting is Standard in the JM Series Controller. Jockey Pump Controllers are combination type starters with Line Side Over current and Short Circuit protection. Joslyn Clark Type JM Jockey Pump Controllers are available as standard with automatic type starting in a wall mounting enclosure that meets Type 2, 12, and 3R requirements. Optional 4X rating is available.

- Automatic start responsive to water pressure with integral pressure sensing switch.
- Standard Pressure Switch Range is 20-290 PSI, with independent high (stop) and low (start) adjustment points on pressure switch. Optional 12-464 PSI.
- Manual electric start and stop from Side mounted Hand-Off-Auto selector switch.
- IEC rated magnetic 3-pole motor contactor.
- IEC Motor Circuit Protector with Adjustable range.
- Over current Trip protection.
- Controller Rated for 18K AIC applications.
- External operator equipped for padlocking in Off which also locks the door closed.
- Easy External Pressure Switch Connection.

DIESEL ENGINE CONTROLLERS

STANDARD EQUIPMENT

- The diesel controller provides four (4) major functions:
 - Starts the diesel engine automatically from water pressure control or non-automatically for manual electric control.
 - Monitors engine as well as system conditions.
 - Maintains charge on engine starting batteries.
 - Initiates a weekly test of the system.
- Enclosures Type 2 Drip Proof, Moisture Resistant with lockable, break cover for Mode Selector Switch, suitable for wall or floor mounting.
- Microprocessor Based Controller.
- 4 Line Display Showing Battery, Charger, and Pressure Info.
 - Batt #1- Volts, Amps, Mode
 - Batt #2- Volts, Amps, Mode
 - Alarm Messages or Date & Time
 - Cut Out, Cut In, Line Pressures
- LED Visual indicators and audible alarms are provided to indicate to the following:
 - AC Power ON
 - #1 Or #2 Battery Fail
 - Engine Overspeed
 - Pump Room Alarm
 - Fail To Start
 - Automatic ON
 - #1 or #2 Charger Fail
 - High Engine Temp
 - Weekly Test
 - Deluge Valve/Remote Start
 - Low Oil Pressure
 - Safety Shut Down
 - Engine Run
 - Controller Trouble
- 2 SETS OF SPDT contacts for remote alarm of Engine Running, Engine Failure, Pump Room Alarm, and Controller Trouble 1 SET OF SPDT Contacts for Switch in Auto & Switch in Manual of Off.
- Dual Battery chargers are switching type, solid state, 10 amp limiting.
- Built-in Printer provides over 7 day review of Max, Min Pressures, Pressure Set points, Number of Starts, and pressure recorder interval.
- Programmable Weekly Timer to automatically start and run the engine for 30 minutes once a week.
- Internal plumbing and solenoid valve is rated for 500 PSI service.
- Controller is compatible with all Tier 1, Tier 2 and Tier 3 engines for use in environmental friendly diesel applications.



Joslyn Clark 

 **DANAHER**
SENSORS & CONTROLS
SPECIALTY PRODUCTS

2100 West Broad Street, Elizabethtown, NC 28337-8826

800.390.6405

DAN 123010a - JC FPB

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FIRE PUMP CONTROLS
WWW.JOSLYNCLARK.COM

FIRE PUMP CONTROLLERS

Joslyn Clark Fire Pump Controllers are designed and listed specifically for fire pump service. These controllers meet or exceed all requirements of the National Fire Protection Association Standard NFPA 20, IEC62091, are listed by Underwriters Laboratories Inc. and approved by the Factory Mutual System.

ELECTRIC PRODUCT RANGE

- 5 to 300 HP 200- 230 Volt
- 5 to 600 HP 380- 575 Volt
- 200 to 1500 HP 2300 – 7200 Volt

CONTROLLER TYPES

- Across the Line
- Solid State Soft Start
- Part Winding
- Wye-Delta Open & Closed
- Transfer Switch Option
- Medium Voltage Controllers
- Limited Service
- Diesel Engine Controllers
- Jockey Pump Controllers

LED INDICATORS

- Power Available
- Comm. Status
- Start Delay
- RPT ON
- Pump Run
- System Alarm
- Phase Reversed
- Low Pressure

ENCLOSURES

- Types 3R & 12 Standard for Type G Controller
- Purge Systems for Class 1 Div 2 Group D
- Type 2 standard for Type "E" Controller
- Type 4 Painted & 4X Stainless Optional



STANDARD EQUIPMENT - ELECTRIC CONTROLLER

- Operator Interface Module includes 2 Line, 20 Character LCD display of System Pressure and Cut In / Cut Out Set Points.
- Display all 3-phase voltages, line-line currents during run.
- Complete Historic Date Logging Events with Date and Time stamp, 30,000 event storage.
- Historic Data viewable from display.
- Real Time Data Displayed.
- System pressure logged each hour or at pre-set PSI change.
- Pressure data download via Ethernet port or may be accessible by remote computer.
- Microprocessor based design using distributed microprocessors.
- Ethernet Modbus TCP Communications for Event History.
- Single handle operator for easy operation of isolating switch and breaker.
- Automatic Start responsive to a change in water pressure.
- Stainless Steel Pressure Transducer 0-600 PSI, side mounted internally.
- Automatic Stop Programmable Running Period Timer.
- Deluge start or Remote Automatic Start from other fire protection equipment having a normally closed contact which opens to start.
- Manual Start and Stop push buttons on Operator Interface Module.
- Manual Remote Start utilizing remote mounted, normally open contacts that close to start.
- Emergency Start by simply lifting the mechanical start handle.
- PMR, microprocessor based relay which provides locked rotor protection, voltage pickup, and current pickup for display on Operator Interface Module. PMR is factory set for horsepower and voltage, no field adjustment required.
- Programmable Weekly Timer to automatically start through test Solenoid Valve and run the pump for Preset time once a week or once a month.



IO BOARD STANDARD FOR ALL ELECTRIC CONTROLLERS

- One Standard Board for All types of Electric Controllers.
- LED indicators for all Inputs & Outputs.
- All Inputs & Outputs Consolidated on one Board.
- 2 Sets Of SPDT Contacts For Pump Run, Power Available & Phases Reversed.

REAL TIME VALUES

- Discharge Pressure, Cut-In /Out Set point
- Number of Starts/Trips
- Both Volts & Amperes
- Volts & Average Volts
- Amperes & Average
- Voltage Unbalance & %
- Ampere Unbalance & %
- Frequency, Min & Max
- Min & Max Pressure
- Min & Max Current
- Min & Max Voltage
- Room Temp
- Run Hours
- Start Delay Time Remaining
- Pump on Time Remaining
- Last Pump ON Time

FACTORY PROGRAM OPTIONS INDICATOR AND NO & NC CONTACTS

- System Common Alarm
- Fail to Start
- Low Pump Room Temperature
- Compelling Start
- Low System Pressure
- Time delay for Sequence Start
- TS IS Switch Off
- TS In Alternate
- Low Reservoir
- Load Shed Contacts
- Series Pumping Controls For High Zone & Low Zone Controllers
- Low Suction Pressure Shut Down
- Transducer for suction supply
- Pump Lockout – Controller Interlock
- Low Additive Level – Foam systems
- Programmable Option #1
- Programmable Option #2



OPERATOR INTERFACE EVENTS

- Manual Start
- Auto Start
- Manual Stop
- Auto Stop
- Power Off
- Power On
- Locked Rotor Trip
- Motor Overload (125% FLA)
- Fail to Start
- Low Voltage (83% of Nominal)
- High Voltage (115% of Nominal)
- Low & High Frequency (Default 5%)
- Auto Start & Stop Weekly Test
- Communication Fail & Restore

