

JOWA USA

MPC Duplex Pump Controller



Description:

The MPC Pump Controller provides versatile level control in a standard 1/4 DIN package. Designed for use with the 4-20mA output of the level transmitter the unit displays the present level and main set point value. Incorporated in the MPC is programmable level differential for on/off control of one or two pumps, valves, or other devices through two SPDT relays. Also featured are two additional programmable alarm contacts with front alarm light indication.

The MPC is flexible and incorporates a user-friendly programming menu. The front face meets NEMA 4X for outdoor panel mounting. So many features are combined into the MPC that it eliminates many components in a pump control system.

Features:

- Selectable pump alternation when used with two pumps to minimize pump wear. With alternation "on" a seal failure or over temperature condition will force the non-failed pump to lead status and stop alternation.
- When used with a submersible pump including a moisture sensor the MPC has alarm light indication of seal failure.
- When used with a pump including a thermostat the MPC has alarm light indication of pump over temperature and removes the pump from service.

The Pump can be brought back into service automatically or by manual reset when the pump has cooled down.

- Integral 24VDC power supply for level transmitter.
- Displays pump run time from a front panel button.
- Test System function that simulates the process input to insure the pumps are operating or to test programming.
- User selectable security lock-out of programming and/or set points.
- Process input retransmission (4 to 20mA).

SPECIFICATIONS

Inputs: 4 (or 0) to 20 mA DC or 2 (or 0) to 10 VDC selectable.

Input Impedance: Current = 10 ohms, Voltage = 100 K ohms.

Output Ratings:

Control Relays: SPDT, rated 10A @ 240 VAC res., 1/4 hp @ 120 VAC, 1/3 hp @ 240 VAC.

Alarm Relays: SPST, 3A @ 240 VAC res., 1/10 hp @ 120 VAC.

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Control Type: On/off, reverse (pump out) or direct (pump in) acting.

Power Requirements: 100 to 240 VAC nominal, +10%-15%, 50 to 400 Hz, single phase; 132 to 240 VDC nominal, +10%- 15%.

Power Consumption: 7.5 VA maximum.

Accuracy: $\pm 0.25\%$ of span, ± 1 least significant digit.

Display: Two 4 digit, 7 segment 0.56 $\frac{1}{2}$ high LED's.

Display Resolution: 1 count.

Memory Backup: Nonvolatile memory (no batteries required).

Serial Communications: Optional RS-232 or RS-485 with Modbus® protocol.

Weight: 16 oz. (454 g).

Ambient Operating Temperature/RH: 14 to 131°F (-10 to 55°C)/0 to 90% up to 104°F (40°C) non-condensing, 10 to 50% at 131°F (55°C) non-condensing.

Front Panel Rating: Meets UL Type 4X (IP66).

Loop Power Supply (isolated): 24 VDC @ 50 mA, regulated.

Seal Failure (Moisture Sensor):

Power: 2.5 VDC.

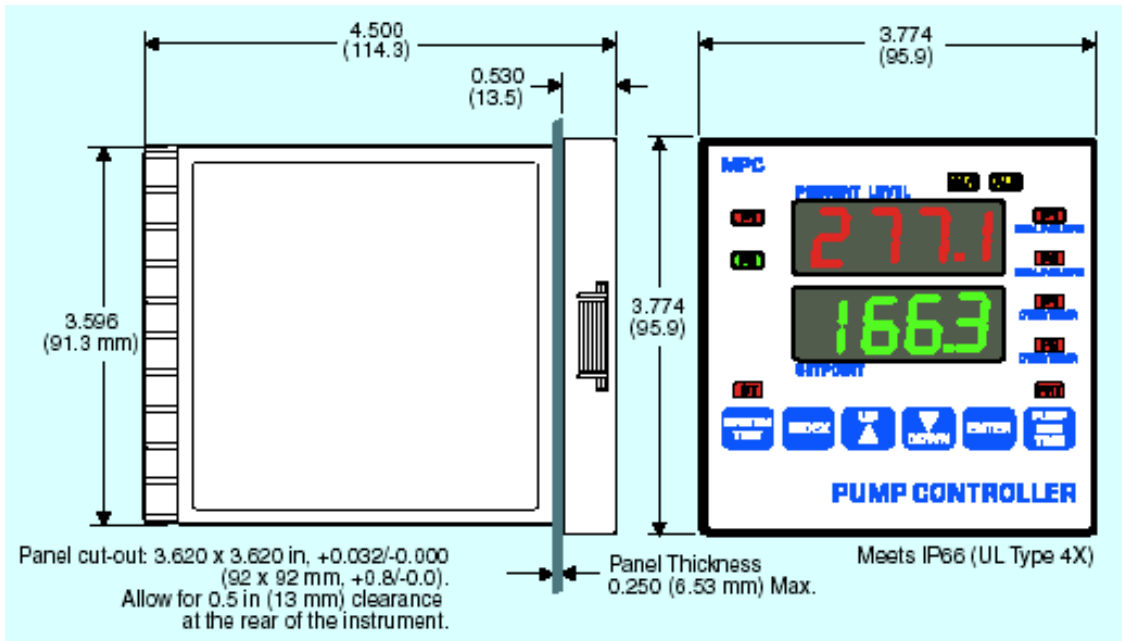
Search Current: 3 micro amps.

Resolution: 10K to 500K ohms in 10K ohm steps.

Agency Approvals: UL 508.

ACCESSORIES:

Weatherproof Enclosures, NEMA 4X.



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