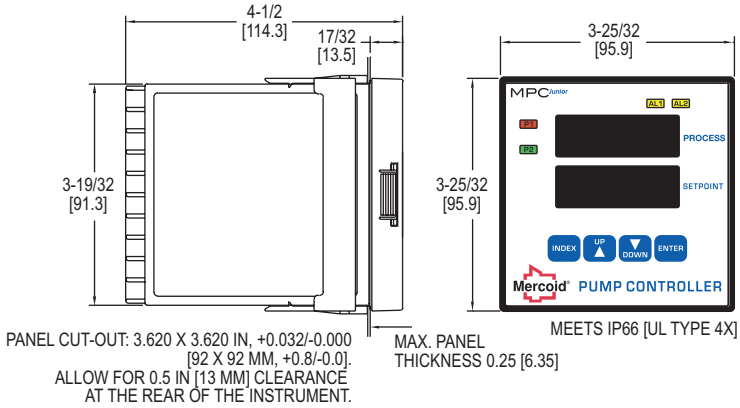
SERIES MPC JR | MERCOID® BY DWYER

PUMP CONTROLLER

One or Two Pump Control with Built-In Alternation



The **SERIES MPC JR** Pump Controllers provides versatile level control in a standard 1/4 DIN package. Designed for use with almost any style level transmitter the unit displays the present level and main set point value. Incorporated in the MPC JR is programmable level differential for on/off control of one or two pumps, valves, or other devices through two SPDT relays.

FEATURES/BENEFITS

- Selectable pump alternation when used with two pumps to minimize pump wear
- Integral 24 VDC power supply for transmitter
- User selectable security lock-out of programming and/or set points
- Optional process input retransmission as a current (4 to 20 mA) or voltage (2 to 10 VDC) analog signal
- Analog output on pump “on” condition for activation of separate pump run time meters

APPLICATIONS

- Water and wastewater
- Sump and sludge pits, clarifiers, digesters
- Chemical storage tanks
- Oil tanks
- Reservoirs

SPECIFICATIONS

Inputs: 4 (or 0) to 20 mA DC or 2 (or 0) to 10 VDC selectable.
Input Impedance: Current = 10 Ω; Voltage = 5 K Ω.
Output Ratings: Control relays: SPDT, rated 10 A @ 240 VAC res.,1/4 hp @ 120 VAC, 1/3 hp @ 240 VAC; Alarm relays: SPST, 3 A @ 240 VAC res., 1/10 hp @ 120 VAC; Others: 15 VDC @ 20 mA for output one and output two.
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 max.
Accuracy: ±0.25% of span, ±1 least significant digit.
Display: Two 4-digit, 7 segment 0.56″ 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.
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.
Weight: 16 oz (454 g).
Agency Approvals: cULus.

MODEL CHART

Model	Description	Price
MPCJR	Pump controller	**$386.00**

OPTIONS

To order add suffix:	Description	Price
-RC	Retransmission of input, 4 to 20 mA	**+$65.50**
-RV	Retransmission of input, 0 to 10 VDC	**+65.50**
-232	RS-232 Modbus® RTU serial communications	**+186.00**
-485	RS-485 Modbus® RTU serial communications	**+186.00**

ACCESSORIES

Weatherproof Enclosures, NEMA 4X (IP66).❶

A-901

Modbus® is a registered trademark of Schneider Automation, Inc.

Compatible Level Transmitters: See page 358 (Series SBLT2)
See page 360 (Series PBLT2)
❶See page 368 (Series A-900 & A-901)