Model FPC-1200, Duplex Pump Controller

**Level/Pump Controllers**

**Duplex Pump Controller Model FPC-1200**

**Duplex Pump Controller Model FPC-1200** is a float switch based duplex pump controller intended primarily for wastewater lift stations and other pump down applications. It includes sensor inputs for the seal failure and temperature failure devices on most submersible pumps. In the event of a seal failure, the Seal Fail indicator and the Seal Fail output relay are energized, and the corresponding pump is demoted to lag position. In the event of a temperature failure, the Temp Fail indicator is energized and the corresponding pump is disabled until the temperature failure condition no longer exists. Two 12V driver outputs are included for the High Alarm horn and light. If the High float is activated (closed), the High Alarm driver outputs are activated and the High Alarm indicator will flash on and off. A Mute input and High Alarm Test pushbutton allow the alarm to be silenced and tested during operation. The Call indicators are energized when the controller activates each load pump and the Run indicators are energized by feedback from each motor starter auxiliary contact. The HOA switches allow each pump to be energized manually, disabled, or energized automatically by the float inputs. A lead pump selector switch permits either pump to be selected as lead pump or alternation can be selected causing either pump to operate as lead. The FPC-1200 uses removable terminal strips to make replacement in the field quick and easy.

**SPECIFICATIONS**

**Inputs:**
- Floats: Open circuit voltage: 5 VDC; Short circuit current: 2 mA maximum;
- Auxiliary motor starter contacts: Open circuit voltage: 12 VDC; Short circuit current: 2 mA maximum;
- Temperature and seal failure: Open circuit voltage: 5 VDC; Short circuit current: 2 mA maximum;
- Mute: Open circuit voltage: 5 VDC; Short circuit current: 2 mA maximum.

**Output Type:**
- (2) form A SPST contacts for pump output, (1) form A SPST contact for seal-fail alarm, (2) 12 VDC driver outputs for high alarm horn and light.

**Output Ratings:**
- Form A SPST: 5 A @ 120 VAC; 12 VDC driver: 100 mA @ 12 VDC.

**Control Type:** On/off pump out (down).

**Power Requirements:** 120 VAC ± 15%, 50 to 70 Hz.

**Power Consumption:** .25 A @ 120 VAC.

**Temperature Limits:** -4 to 140°F (-20 to 60°C).

**Seal Failure (Moisture Sensor):** Trip point: 50,000 ohms.

**Weight:** 1 lb 4 oz. (454 g).

**Agency Approvals:** UL.

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**Series DPC Duplexing Pump Controller** is used where two pumps are required to alternate to provide equal run time on each. Alternating loads allows for equal wear on both pumps lengthening their operation life. The controlled relay alternates each time the control switch opens. Two LED indicators show the load that is energized by the SPDT output relay. The DPC-ACS model is a standard duplexing controller providing the automatic alternating sequence. The DPC-ALS offers the same automatic sequencing as well as A-B or B-A sequence lock selectable by a three-position toggle switch.

**SPECIFICATIONS**

**Power Requirement:** 120 VAC/DC, 240 VAC or 24 VAC/DC.

**Power Consumption:** 3 VA (approximate).

**Temperature Limits:**
- Operating: -4 to 131°F (-20 to 55°C);
- Storage: -40 to 185°F (-40 to 85°C).

**Switch Type:** SPDT.

**Switching Current:** 1 mA.

**Electrical Rating:** 10 A @ 240 VAC resistive, 1/8 hp @ 120 VAC, 1/4 hp @ 240 VAC inductive, 360 VA @ 240 VAC inductive.

**Indicators:** (2) LED's show active output relay.

**Enclosure:** Polycarbonate dust cover.

**Mounting:** 8-pin octal.

**Weight:** 4.5 oz (128 g).

**Agency Approvals:** UL.