

# Econotrol™ DPC Controller

## Standard Features:



Picture not to scale

- 1/4th DIN Nema 4X Faceplate
- Up to 2 pump controls with selectable alternation
- 10 amp SPDT output contacts
- 4-20mA Analog retransmission
- 24VDC @ 50ma output power for external level transmitters
- Two .56 inch Four digit LED displays
- Motor Seal fail and Overtemp shutdown and display
- Pump Run time display
- Selectable time delay on power up for lag pump to prevent both pumps starting at the same time
- Optional Modbus®-RTU Serial Communications
- 100-240VAC 50/60 Hz control power
- 1 year warranty

*Please note: If you require a complete control panel, please contact the factory for a customized quotation at (904) 693-3318 or [Sales@Suncoast-hyd-elect.com](mailto:Sales@Suncoast-hyd-elect.com).*

## Engineering Specifications

**Inputs:** 4 to 20 mA DC or 2.0 to 10.0 V DC selectable.

**Input Impedance:** Current input: 10 ohms, Voltage input: 100K 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.

**Control Type:** on/off, reverse or direct 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:** 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.

**Weight:** 16 oz. (454 g).

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

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

**Seal Failure (Moisture Sensor):**

**Power Supply to Moisture Sensor:** 2.5 VDC.

**Search Current:** 3 micro amps.

**Resistance Sensitivity:** 10K to 500K ohms.

**Resistance Resolution:** 10K ohm steps.

**Over Temperature:**

**Input:** Dry contact on Transistor switch (NPN open collector type).

**Current:** 1 mA DC.

**Isolation:** Shares common ground with transmitter input.

**Alarm On-Off Differential:** 1 count.

**Set Point Range:** Selectable.

**Power Voltage Stability:** 0.05% over the power voltage range.

**Temperature Stability:** 100 ppm / °C typical, 200 ppm / °C maximum.

**Common Mode Rejection:** 140 db minimum at 60 Hz.

**Normal Mode Rejection:** 65 db typical, 60 db at 60 Hz.

**Isolation:**

**Relay:** 1500 VAC to all other inputs and outputs.

**24 VDC Loop Power:** 500 VAC to other inputs and outputs.

**Process Output:** 500 VAC to other inputs and outputs.

**Seal Failure Input:** 500 VAC to other inputs and outputs.

**Storage Temperature:** -40 to 176° F (-40 to 80° C).

**Agency Approvals:** UL 508.



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