

# DPM-240

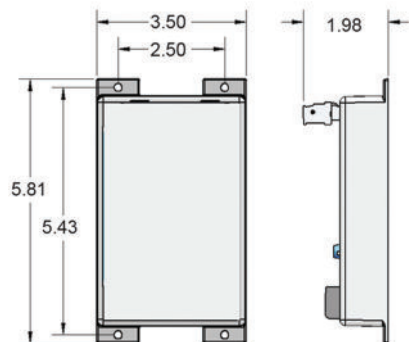
## DUAL CHANNEL SEAL FAILURE & OVER TEMPERATURE ALARM RELAY



The DPM-240 dual channel module is designed to protect 2 submersible pumps against damage resulting from seal failure and over temperature. Four modes of operation are available. In Modes 1 & 2, the resistance of the seal sensor in each pump is continuously monitored and alarms when it drops below the adjustable trip level. In Modes 3 & 4, the resistance of combined seal/temp sensors in each pump is continuously monitored and alarms on a temp failure when the sensor is open and alarms on a seal fail when the resistance drops below 400 Ohms. The measured resistance in the pump seal chamber drops as the seal leaks and contaminants enter. The temperature sensor in the motor windings is monitored and will trip when an over temperature condition is detected. Each input has a corresponding output relay and indicating LED which are activated during an alarm condition. The module is equipped with a Seal Trip Adjustment dial, a manual reset button, and a 4-position mode selector switch.

### OPTIONAL DISPLAY: DPM-LCD

The optional display can be mounted on the inner door and connected to the RJ45 port on the DPM-240 module using an ethernet cable. The display is used to visualize the status of the Seal and Over Temp. switch. It can be configured to show 1 or 2 pumps. Alarms are data logged with date and time stamps. The alarm log can be retrieved onto a smart phone via QR code technology.



### MODES OF OPERATION

- MODE 1** Over temp. & Seal Fail: 2-wire each / Auto Reset
- MODE 2** Over temp. & Seal Fail: 2-wire each / Manual Reset
- MODE 3** Over temp. & Seal Fail: 2-wire combined – FLS Type / Auto Reset
- MODE 4** Over temp. & Seal Fail: 2-wire combined – FLS Type / Manual Reset

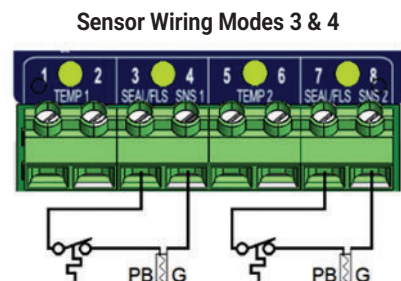
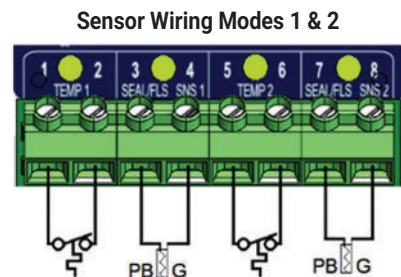
### SPECIFICATIONS

- Input Voltage:** 120~240 VAC (50/60 Hz)
- Transient Protection:** 30kV air/contact
- Input/Output Isolation Voltage:** 4,300VAC
- Sensor Voltage:** 24VDC, 5mA (TEMP), 24VDC, 0.5mA (SEAL)
- Max sensor cable length:** 328 feet (100m)
- Power consumption:** 2 VA
- Seal fail sensitivity:** 5K  $\Omega$  to 250K  $\Omega$  (Adjustable – Modes 1&2)
- Relay rating:** 5A, 240VAC max. 10M operation (Mechanical)
- Indicators:** Green / Flashing red LED for each input
- Operating Temperature:** -18°F ~ 140°F (-28°C ~ 60°C)
- Storage Temperature:** -40°F ~ 185°F (-40°C ~ 85°C)
- Weight:** 7.5 oz (213 g)

### ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1118777	DPM-240 Module
1113287	DPM-240 Module w/LCD Display (includes 3 ft. cable)
1040547	*Display Cable, 5 ft.
1040548	*Display Cable, 7 ft.
1027787	*Display Cable, 10 ft.
1027788	*Display Cable, 14 ft.

\*Optional cable lengths from base module to display. Standard is 3 feet of cable.



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