

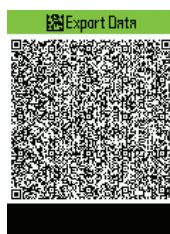
# DPM-240

## Dual Channel Seal Failure & Over Temperature Alarm Relay

The DPM-240 dual channel module pump monitor is designed to protect two submersible pumps against damage resulting from seal failure and over temperature. In Modes 1 & 2, the resistance of the seal sensor and temp sensor in each pump is continuously monitored and alarms when the seal sensor resistance drops below the adjustable trip level and alarms on a temp failure when the sensor is open. In Modes 3 & 4, the resistance of combined seal/temp sensor in each pump is continuously monitored and faults on a temp failure when the sensor is open and faults 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. Each input has a corresponding output relay and indicating LED which are activated during a fault condition. The module is equipped with a Seal Trip Adjustment dial, a manual reset button, and a 4-position mode selector switch.

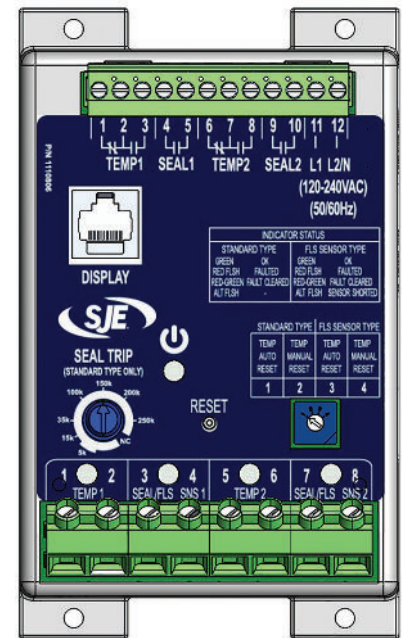
### OPTIONAL DISPLAY: DPM-LCD

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

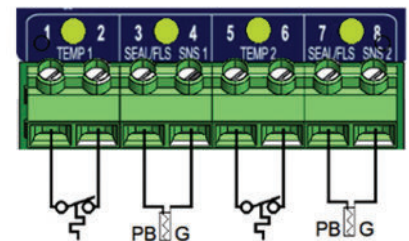
- MODE 1** - Over Temp & Seal Fail: 2-wire each / Auto Reset
- MODE 2** - Over Temp & Seal Fail: 2-wire each / Manual Reset
- MODE 3** - Over Temp & Seal Fail: 2-wire combined – FLS Type / Auto Reset
- MODE 4** - Over Temp & Seal Fail: 2-wire combined – FLS Type / Manual Reset



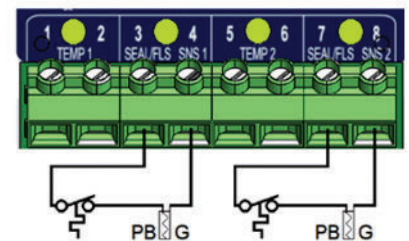
Patent Pending



#### Sensor Wiring Modes 1 & 2



#### Sensor Wiring Modes 3 & 4



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DPM-240 - Dual Channel Seal Failure & Over Temperature Alarm Relay.

Part #	Description	Shipping Weight
1118777	DPM-240 Module (panel option 5F*)	0.8 lbs.
1113287	DPM-240 Module w/LCD Display, includes 3 ft. RJ45 display cable (panel option 5H*)	1.1 lbs.

\*Use option code 5F or 5H to add to a panel configuration.  
For additional display cable lengths, please contact Technical Support at techsupport@sjeinc.com.

SPECIFICATIONS

<b>INPUT VOLTAGE:</b> 120~240 VAC (50/60 Hz)	<b>SEAL FAIL SENSITIVITY:</b> 5K $\Omega$ to 250K $\Omega$ (Adjustable – Modes 1&2)
<b>TRANSIENT PROTECTION:</b> 30kV air/contact	<b>RELAY RATING:</b> 5A, 240VAC max. 10M operation (Mechanical)
<b>INPUT/OUTPUT ISOLATION VOLTAGE:</b> 4,300VAC	<b>INDICATORS:</b> Green / Flashing red LED for each input
<b>SENSOR VOLTAGE:</b> 24VDC, 5mA (TEMP), 24VDC, 0.5mA (SEAL)	<b>OPERATING TEMPERATURE:</b> -18°F ~ 140°F (-28°C ~ 60°C)
<b>MAX SENSOR CABLE LENGTH:</b> 328 feet (100m)	<b>STORAGE TEMPERATURE:</b> -40°F ~185°F (-40°C ~ 85°C)
<b>POWER CONSUMPTION:</b> 2 VA	<b>WEIGHT:</b> 7.5 oz (213 g)

