



BEDFORD PUMPS LTD.

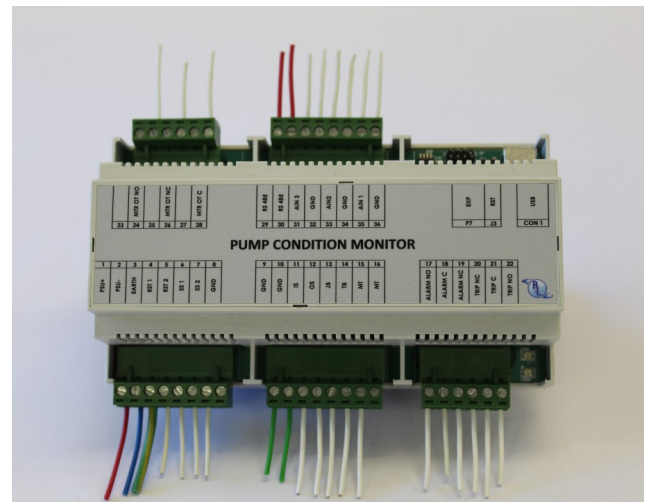
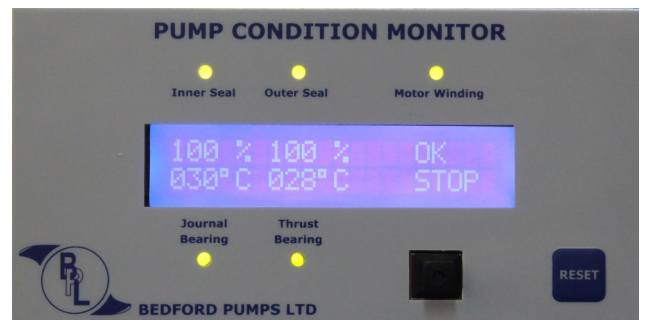
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PUMP CONDITION MONITOR II



Innovative Monitoring
for Submersible Pumps
SCADA compatible with Modbus

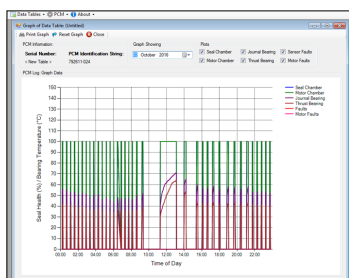
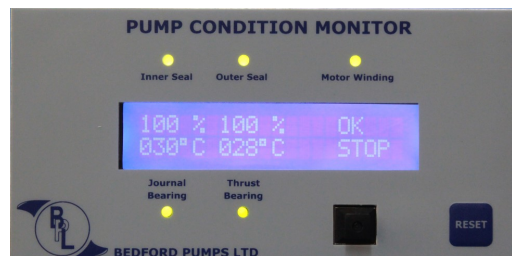
PUMP CONDITION MONITORING, PROTECTION & ANALYSIS

Protection

The BPL Pump Condition Monitor II (PCM) is designed to protect the pump in the event of a fault condition ensuring the pump and motor are fully protected at all times. If the pump is running outside of the values set within the unit an alarm signal is triggered. If the fault condition continues to deteriorate the condition monitor will trip the unit. The unit also provides supervisory status and recording of various protection and indicators installed into modern submersible pumps, hence can be central to any planned maintenance and condition-based monitoring systems.

Monitoring & Recording

The PCM can be utilised as a standalone instrument with a panel mounted display to provide local status information and/or can communicate with external PLC networks via a RS485 (Modbus) connection.



Analysis

Data Viewing Software via a Windows based package enables the download and retention of data from the pumpset.

The data can be sent to us for review, opened within the software package or exported into a spreadsheet to enable the scaling of the auxiliary analogue data.

Features

- Pump seal and bearing sensor status monitoring
- Motor over temperature relay
- Single common alarm and trip relays
- Start/stop monitoring
- USB connection
- Remote reset
- Panel mountable via DIN rail
- RS485 Modbus RTU connectivity
- Auxiliary analogue input terminals
 - Providing 0-1V, 0-10V and 4-20mA
- Reduced output relays
- Expansion port
- Optional LCD display

Power

| | |
|--------------------|--------|
| Supply | 24V DC |
| Circuit Protection | 1 AMP |

Enclosure

| | | |
|-----------------------------|-------------------|--------|
| Dimensions | Length | 150 mm |
| | Width | 90mm |
| | Height | 58mm |
| IP Rating | IP20 | |
| Mounting Position | DIN rail NS35/7.5 | |
| Operating Temperature Range | 0-50°C | |

Display

| | | |
|-----------------------------|--|--------|
| Dimensions | Length | 142 mm |
| | Height | 71 mm |
| | Depth inc DIN rail | 41 mm |
| Panel Door Hole Dimensions | Length | 135 mm |
| | Height | 64 mm |
| IP Rating | IP10 – When installed on the control panel | |
| Mounting Position | Control Panel Door | |
| Operating Temperature Range | 0-50°C. Readability of display 10-45 degrees | |

