



DIGITAL MOTOR LOAD MONITOR shuts down pump in the event of:

- DRY RUN
- CAVITATION
- DAMAGED IMPELLER
- CLOSED INLET VALVE
- CLOSED OUTLET VALVE
- BLOCKAGES

The P-10 digital motor load monitor uses a unique and patented method of measuring the torque of a pump's drive motor. By monitoring the "normal" load level any deviation from this range changes the state of the internal relay activating a red LED alarm light. The output relay will shut down the pump, activate additional alarm and / or communicate with other equipment in the process.

Designed for use in conjunction with a motor starter, the P-10 protector will monitor motor underload OR overload. In pumping applications, conditions such as dry run, cavitation, damaged impeller, closed valves or blockages will create an "abnormal" underload condition, which the P-10 will detect and subsequently shut down the pump and provide communication to users and / or processes.

TECHNICAL DATA	
Dimensions	1.77" W x 3.54" H x 4.53" D (45 mm x 90 mm x 115 mm)
Weight	5.25 oz. (0.15 kg)
Supply voltage	1 x 100-240 (± 10%) 3 x 100-600 (± 10%) 3 x 600-690 (± 10%)
Frequency	50 or 60 Hz
Current input	Current transformers only; CTM 010, 025 or 050 (Max. 50 A motor)
Start-up delay	1 - 64 s
Response delay	0.05 - 64 s
Relay output	5 A 240 VAC Resistive, 1.5 A 240 VAC Pilot duty / AC 12
Fuse	Maximum 10 A
Terminal wire size	Use 75°C copper (CU) wire only. 0.2 - 4.0 mm ² single core (AWG12) 0.2 - 2.5 mm ² flexible core (AWG14), stripped length 8 mm (0.32")
Terminal tightening torque	5 - 7 in.-lbs. (0.56 - 0.79 Nm)
Repeatability	±2.5% FS, 24 H, @ +77 °F (+25 °C)
Temperature tolerance	<0.1% / °C
External RESET on term. 5	24 - 48 VDC or 24 - 240 VAC, 50 / 60 Hz
Operating temperature	4°F — 122°F (-20°C — +50°C)
Storage temperature	22°F — 176°F (-30°C — +80°C)
Protection class	IP 20
Approved by	UL and cUL up to 600 V, CE

AMP RANGE	MODEL NO.	PRICE CODE NO.
.4 - 10	P-10-10	99-1170
10.1 - 25	P-10-25	99-1171
26 - 50	P-10-50	99-1172

Each P-10 pump protector comes complete with monitor, current transformer and complete installation instruction manual.

To order, use Price Code No.