COMPACT DIGITAL PUMP LOAD CONTROL
MODEL PMP-25

WHAT ARE YOU DOING TO PROTECT YOUR PUMP?

PROTECT AGAINST

- Dry Running
- Overload
- Cavitation
- Bearing Failure

UNIQUE RANGE FINDER TOROID MAKES INSTALLATION EASY

- One Sensor For Capacities From Fractional up to 50HP
- Use Optional Current Transformers for Big Motors

VARIABLE FREQUENCY POWER
MEASURING POWER ON THE OUTPUT OF A VARIABLE FREQUENCY DRIVE IS A SPECIAL CASE

- Voltage and Current Transformers do not work at low frequencies
- The waveform on both the input and output of a drive is distorted

The Universal Power Cell uses Hall Effect sensors that are not affected by odd waveshapes or frequencies. Also, no Voltage or Current Transformers are used.

The UPC is field scalable to match your pump motor. Complete information at loadcontrols.com.

The PMP-25V Pump Load Control takes the 0-10 volt load signal from the UPC, displays the Pump Load, and has the Set Points, Timers and Relay and Analog Outputs.

TYPICAL CONNECTIONS

PMP-25 HOOK-UP

Complete installation information available at loadcontrols.com

LOAD CONTROLS INCORPORATED
53 Technology Park Road | Sturbridge, MA 01566 | ph: 888-600-3247 | fx: 508-347-2064 | loadcontrols.com

4/2013
PUMP LOAD CONTROLS MONITOR TRUE MOTOR POWER

DETECT LOSS OF LOAD
- Dry Running
- No Prime
- Cavitation

DETECT OVERLOAD
- Jammed Impeller
- Bad Bearings

COMPACT DIGITAL PUMP LOAD CONTROL MODEL PMP-25

TRUE POWER LOAD DISPLAY
Versatile - Can Display
- % of Full Load
- Horsepower
- Kilowatts

EASY FRONT PANEL SETUP
- See all of your settings with a touch of a button
- Optional Lockout Switch - Rear switch disables "ENTER" button

RUGGED ENCLOSURE
Designed to fit in many places
- On Starter Door
- On Raceway
- Panel Mount - With Bezel Kit
- On Wall - With Standard Outlet Box Kit

4-20 MILLIAMP ANALOG OUTPUT
Send load information to
- Computers
- Chart Recorders
- Data Loggers

2 ADJUSTABLE SET POINTS
Low Trip - When load is below the Low Trip, the built-in relay will trip.
- Dry Running
- Loss of Prime
- Plugged or Closed Inlet or Outlet

High Trip - When the load is above the High Trip, the built-in relay will trip.
- Jammed Impeller
- Bearing Failure

FILTER OUT NUISANCE TRIPS
- Adjustable Digital On-Delay Timers - Trip won’t activate until the selected delay time is exceeded
- Adjustable Digital Start-up Timer - No false trips while motor is starting or stopping

3 WAYS TO RESET
Local - Button on Control
Remote - With Low Current Switch or Relay
Automatic - With Jumper
Latching Relays - You choose when to reset

2-Form C Relays - Give you both Normally Open and Normally Closed Contacts

FREE 30 DAY TRIAL AVAILABLE
Model PMP-25 $750
IMMEDIATE SHIPMENT
* Add $75 For Current Transformer for Motors Larger than 50 HP
* Optional Lockout Switch $50
* Specify Bezel Kit for Panel Mount
* Specify Outlet Box Kit for Wall Mount

MONITORING PUMP HORSEPOWER TELLS YOU WHAT’S HAPPENING TO THE FLUID

WHAT’S HAPPENING TO THE FLUID

WHY MONITOR POWER INSTEAD OF JUST AMPS?

Power is Linear
Equal Sensitivity at Both Low and High Loads

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Enclosure</th>
<th>Glass-filled Polycarbonate (3 1/4&quot; x 6 1/4&quot; x 2&quot;) (83mm x 160mm x 54mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timers</td>
<td>Start-up - 0-999 sec. (16.7 min.) adjustable</td>
</tr>
<tr>
<td></td>
<td>Low Trip Delay - 0-999 sec. (16.7 min.) adjustable</td>
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</tr>
<tr>
<td>Mounting Options</td>
<td>On door</td>
</tr>
<tr>
<td></td>
<td>Panel mount with Bezel Kit*</td>
</tr>
<tr>
<td></td>
<td>On wall with Outlet Box Kit*</td>
</tr>
<tr>
<td></td>
<td>*Specify when ordering</td>
</tr>
<tr>
<td>Relay Outputs</td>
<td>(2) Form C 3 AMP @ 300 VAC or 1/8 HP @ 240 VAC Latch when tripped</td>
</tr>
<tr>
<td>Wiring</td>
<td>Unpluggable Terminal Strips on Rear</td>
</tr>
<tr>
<td>Analog Outputs</td>
<td>4-20MA powered by the Control, 500 OHM maximum connected impedance</td>
</tr>
<tr>
<td>Load Display</td>
<td>4&quot; LED 3 Digit</td>
</tr>
<tr>
<td>Response Time</td>
<td>500 Milliseconds</td>
</tr>
<tr>
<td>Capacity</td>
<td>To 50 HP directly through Toroid</td>
</tr>
<tr>
<td></td>
<td>To 500 HP with external Current Transformer &amp; Toroid</td>
</tr>
<tr>
<td></td>
<td>Change capacity with dip switches</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C - 55°C</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>10 VA</td>
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RANGE FINDER TOROID

STILL AVAILABLE

PUMP LOAD CONTROL MODEL PMP-1701
- Large Bright LED Load Display
- Rugged Design
- 2 Adjustable Set Points
- 4-20MA Output
- Trip Delay and Start-Up Delay Timers
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![Diagram of PMP-25 Hook-Up]

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