8-Channel Programmable Process Monitor
DPS800 Series

Model DPS801
$1833

User Selectable Inputs:
Thermocouple, RTD, Current, Voltage
User Selectable Latching/Non-Latching Alarms
Manual or Automatic Scanning
User Selectable Language Prompts:
English, French, German
DPS801 Features
RS-232 Communications

The DPS800 has cold junction compensation and linearization built in for thermocouple inputs.
Voltage and Current inputs are scalable from -1999 to 9999 with a programmable decimal point. With the optional DPS800-LOG logic chip, DPS800 inputs can be configured to accept three logic inputs instead of eight analog input signals.

Each analog channel includes two setpoints which can be configured as high/low, high/high, or low/low alarm operation. The setpoint deadband can be independently adjusted for each channel.
Two form C (SPDT) alarm relays, (common to all channels), provide an output when the setpoint value is exceeded. Alarms can be set for either latching or non-latching operation.
Serial communication is provided by a digital RS-232 or a serial current loop. The DPS801 allows simultaneous serial communications of up to 15 individual monitors when connected to a computer. Language prompts are user selectable for either English, French or German.

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To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPS800</td>
<td>$1756</td>
<td>8-channel scanner</td>
</tr>
<tr>
<td>DPS801</td>
<td>1833</td>
<td>8-channel scanner with RS-232C output</td>
</tr>
<tr>
<td>DPS800-LOG</td>
<td>74</td>
<td>Logic chip</td>
</tr>
</tbody>
</table>

Each unit supplied with complete operator’s manual
Ordering Example: DPS801, scanner + DPS800-LOG, logic chip, $1833 + 74 = $1907
### Input Types and Ranges

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>-200 to 1200°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 2192°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>J DIN</td>
<td>-200 to 1000°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 1832°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>K</td>
<td>-200 to 1300°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 2372°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>T</td>
<td>-200 to 400°C</td>
<td>±1°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 752°F</td>
<td>±1.8°F ±1</td>
</tr>
<tr>
<td>E</td>
<td>-200 to 950°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 1742°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>S</td>
<td>-50 to 1760°C</td>
<td>±3°C ±1</td>
</tr>
<tr>
<td></td>
<td>-58 to 3200°F</td>
<td>±5.4°F ±1</td>
</tr>
<tr>
<td>R</td>
<td>-50 to 1760°C</td>
<td>±3°C ±1</td>
</tr>
<tr>
<td></td>
<td>-58 to 3200°F</td>
<td>±5.4°F ±1</td>
</tr>
<tr>
<td>B</td>
<td>100 to 1800°C</td>
<td>±3°C ±1</td>
</tr>
<tr>
<td></td>
<td>212 to 3272°F</td>
<td>±5.4°F ±1</td>
</tr>
<tr>
<td>N</td>
<td>-200 to 1300°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>-328 to 2372°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>C</td>
<td>0 to 2300°C</td>
<td>±2°C ±1</td>
</tr>
<tr>
<td></td>
<td>32 to 4172°F</td>
<td>±3.6°F ±1</td>
</tr>
<tr>
<td>RTD (Pt100, 3-wire)</td>
<td>-199.9 to 800.0°C</td>
<td>±0°C ±1</td>
</tr>
<tr>
<td></td>
<td>-199.9 to 999.9°F</td>
<td>±1.8°F ±1</td>
</tr>
<tr>
<td>MV*</td>
<td>-50 to 50 mV</td>
<td>±50 µV ±10 µV</td>
</tr>
</tbody>
</table>

*0 to 20 mA, 4 to 20 mA and 0 to 10 Vdc inputs are available with user-supplied shunt resistor or external divider.

### Logic Inputs:
Three out of the eight analog inputs can be configured as logic level inputs.

### Operation:
Manual or automatic scanning modes.

### Scan Rate:
User selectable one channel per second or 8 channels per second. Unused channels are bypassed.

### Alarm Relays:
2 Form C (SPDT) relays, 3 A @ 220 Vac common to all channels.

### Alarm Deadband:
Adjustable for each channel from 1 to 99 display counts.

### Display:
4-digit LED 14 mm (0.56") high for process parameter, scalable from -1999 to 9999; 10 mm (0.4") LED for channel number.
Eight indicators display the alarm status for each channel.

### Sensor Failure Response:
Up-scale/down-scale (user selectable).

### Communications:
RS-232 or 20 mA serial output; 8 data bits, 1 stop bit format; programmable 600, 1200, 2400, 4800, 9600 baud.

### Power:
110/220 Vac 50/60 Hz (-15/+10%).

### Power Consumption:
25 VA.

### Operating Conditions:
-25 to 75°C (13 to 167°F).

### Storage Temperature Range:
-25 to 75°C (23 to 131°F).

### Connections:
Screw terminal strip, max 14 AWG wire; 9-pin D connector for digital connections.

### Dimensions:
96 H x 96 W x 200 mm D (3.78 x 3.78 x 7.87")

### Panel Cutout:
92 H x 92 mm W (3.622 x 3.622")

### Weight:
1.65 kg (0.748 lb).

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