**DYNISCO MODEL 1290**

*Strain Gage Input, 1/8 DIN Digital Pressure Indicator*

**Description**
The model 1290 indicator offers a field scalable display and dual, configurable alarms to meet your changing pressure indication requirements. The available optically isolated mA/Vdc linear retransmission enables the user to log process trends, a valuable feature for SPC and SQC. A simple front panel instrument calibration and compact profile make the model 1290 the ideal indicator for your process.

**Features**
- 350 Ohm strain gage input
- Pushbutton programming and calibration
- Scalable, voltage or current outputs
- Serial communication option
- Peak and valley detection
- Convenient 1/8 DIN size

**Benefits**
- Direct pressure readings
- Easy to use
- Send information to a variety of devices
- Send and receive information from PLCs, PCs, etc.
- Recall extremes of the process
- Save panel space

**Specifications**

**Performance Characteristics**
- Instrument type: Microprocessor - based indicating panel meter
- Display: Five LED digits ±0.5 (13.2 mm) high; Two red LEDs for alarm indication; One red LED for local/remote indication
- Terminations: Screw terminals on rear with safety cover
- Dimensions: 1/8 DIN, 1.89” H x 3.78” W x 5.67” D (48 mm H x 96 mm W by 144 mm D)

**Electrical Characteristics**
- Input: One 350 Ohm strain gage bridge sensor
- Bridge excitation: 10 Vdc ±7%
- Sensitivity: 2 to 4 mV/V, automatically sensed
- Input power: 85 to 264 Vac, 50 to 60 Hz (switching)
- Calibration: With shunt resistor or applied pressure
- Shunt range: From 40 to 100%

**Alarm**
- Alarm type: High/low setpoints; Direct/reverse action; Automatic reset or manual reset; Low alarm may also be masked for start-up
- Alarm output: Two 2 contact SPST; NO or NC jumper selectable

**Analog Retransmission Output**
- Output: 0 to 20 mA (maximum 500 Ohms); 4 to 20 mA (maximum 500 Ohms); 0 to 10 Vdc (minimum 5,000 Ohms)
- Selection: Jumper for current or voltage
- Isolation: Optically isolated

**Serial Communication Interface**
- Type: RS485 opto - isolated from both input and output
- Protocol: Polling/selecting, Modbus/Bus selectable
- Baud rate: From 150 to 19,200 baud

- Front panel: IP65/NEMA4 rated, dust/splash-proof
- Accuracy: ±0.1% of full scale, ±1 digit at 25°C
- Normal mode rejection ratio: 60 dB at 50/60 Hz
- Sampling time: 100 ms typical
- Operating temperature range: 32˚F to 125˚F (0˚C - 50°C)
- Weight: 1 lb.

- Display: Keyboard configurable from 10 to 99,990 with decimal point in any position
- Resolution: 1 digit with range to 2,010; 10 digit with range to 20,100; 100 digit with range to 99,990
- Zero balance: ±25% of full range
- Open input protection: Displays ‘OPEN’ if any of the four sensor wires are open

- Contact rating: 0.6 A at 110 Vac resistive load; 0.5 A at 220 Vac resistive load; 0.3 A at 110 Vdc inductive load

- Scaling: Output is scalable from 0 to 99,990
- Output resolution: ±0.05% of output span maximum
- Accuracy: ±0.2% of span

- Format: Seven bits + parity; eight bits + parity
- Parity: Even/odd
- Stop bits: One
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Ordering Guide

<table>
<thead>
<tr>
<th>Model</th>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Power</th>
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</thead>
<tbody>
<tr>
<td>1290</td>
<td>1</td>
<td>Dual alarm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Dual alarm and analog retransmission</td>
<td></td>
<td>110/220 Vac (switching)</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Dual alarm and RS485 serial communications</td>
<td>3</td>
<td>124 Vdc</td>
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</tbody>
</table>

Ordering Example: 1290 - 1 - 3

**Delivery**

Express delivery. Call for delivery information on other configurations.