DYNISCO MODEL 1291
Process Input, 1/8 DIN Multifunction Digital Indicator

Description
Model 1291 can power voltage and current transmitter loops and display the pressure on a 5-digit LED display. Like model 1290, it fits in a 1/8 DIN cut-out to minimize panel space and features two independently programmable alarms to warn of over pressure or under pressure situations. The operator can store all operating parameters, including instrument span, alarm settings and transducer calibration, by using the four front panel pushbuttons. As an option, an optically isolated RS485 serial data port allows communications with a host computer.

Features
• Current loop and voltage inputs
• Internal 24 Vdc supply
• Scalable to 99,990 counts
• Current loop break protection
• mA/Vdc analog output
• Peak and valley detection
• Digital filtering for display, alarms and auxiliary output
• Square root extraction

Benefits
• Use almost any process input
• Power 2 and 4 wire transmitters
• Display process in actual engineering units
• Protects process
• Send information to a variety of devices
• Retrieve process extremes
• Eliminate extraneous noise effects
• Display flow directly

Specifications

Performance Characteristics

Instrument type: Microprocessor - based indicating panel meter
Display: Five green 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 x 144 mm D)

Electrical Characteristics

Input signal selection: Jumper/keyboard selectable for 0 to 20 mA, 4 to 20 mA, 0 to 5 Vdc, 1 to 5 Vdc, 0 to 10 Vdc, and 2 to 10 Vdc.
Resolution: 1 digit with range to 10,000, 10 digit with range to 99,990
Display: Keyboard configurable from 10 to 99,990 with decimal point in any position

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

Serial Communication Interface

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

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

Front panel: IP65/NEMA 4 rated, dust/splash - proof
Accuracy: ±0.1% 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 to 52°C)
Weight: 1 lb.

Auxiliary power supply: 24 Vdc, 1.25 watt output galvanically isolated from instrument input
Open input protection: Displays “OPEN” if the 4 to 20 mA loop is interrupted
Input power: Switching type, 85 to 264 Vac, 50/60 Hz
Contact rating: 0.6 A at 110 Vac resistive load; 0.5 A at 220 Vac resistive load; 0.3 A at 110 Vac inductive load

Format: Seven bits + parity; eight bits + parity
Parity: Even/odd
Stop bits: One
Isolation: Optically isolated
Scaling: Output is scalable from 0 to 99,990
Output resolution: ±0.05% of output span maximum
Accuracy: ±0.2% of span
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Ordering Guide

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<tr>
<th>Model</th>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Power</th>
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</thead>
<tbody>
<tr>
<td>1291</td>
<td>2</td>
<td>Analog output + dual alarms</td>
<td>1</td>
<td>24 Vdc</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>RS485 Interface + dual alarms</td>
<td>3</td>
<td>100 - 240 Vac (switching)</td>
</tr>
</tbody>
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Ordering Example: 1291 - 2 - 3

Delivery

Express delivery. Call for delivery information on other configurations.