

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)

Front panel: IP65/NEMA4 rated, dust/splash - proof
Accuracy: $\pm 0.1\%$ 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.

Electrical Characteristics

Input: One 350 Ohm strain gage bridge sensor
Bridge excitation: 10 Vdc $\pm 7\%$
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%

Display: Keyboard configurable from 10 to 99,900 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 99,900
Zero balance: $\pm 25\%$ of full range
Open input protection: Displays "OPeN" if any of the four sensor wires are open

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

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

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

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

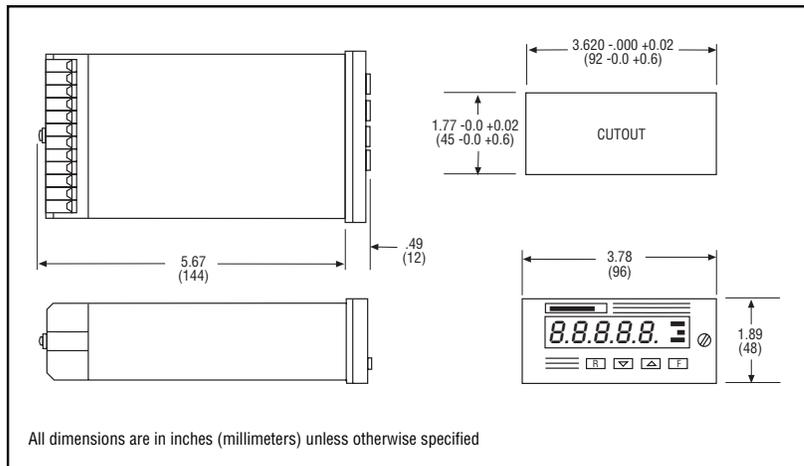
Serial Communication Interface

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

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

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Ordering Guide

Model	Code	Description	Code	Power
1290	1	Dual alarm	3	110/220 Vac (switching)
	2	Dual alarm and analog retransmission		
	3	Dual alarm and RS485 serial communications	1	24 Vdc

Ordering Example: 1290 - 1 - 3

Delivery

Express delivery. Call for delivery information on other configurations.