

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)

Front panel: IP65/NEMA 4 rated, dust/splash - proof

Accuracy: $\pm 0.1\%$ 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.

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

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

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

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

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

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

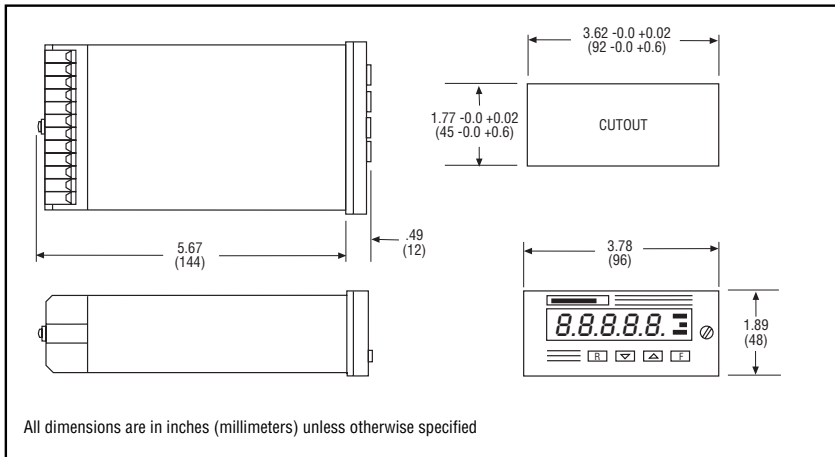
Scaling: Output is scalable from 0 to 99,990

Output resolution: $\pm 0.05\%$ of output span maximum

Accuracy: $\pm 0.2\%$ of span

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Ordering Guide

Model	Code	Description	Code	Power
1291	2	Analog output + dual alarms	1	24 Vdc
	3	RS485 Interface + dual alarms	3	100 - 240 Vac (switching)

Ordering Example: 1291 - 2 - 3

Delivery

Express delivery. Call for delivery information on other configurations.