

IIP-DISP

PRESSURE TRANSMITTER WITH DISPLAY AND SWITCHES

- Rotable Display and Housing
- Display Accuracy 0.1% +/- 1 digit
- Bright 4 digit LED Display
- 4 – 20 mA Output Option
- 1 or 2 PNP Alarm contacts
- Min / Max Value Memory
- Ex version available
- Cost Effective solution



Description

The IIP-DISP is a combination of a pressure transmitter, an intelligent pressure switch and a digital display.

The unit can measure pressure ranges from 0.6 bar to 600 bar, display the actual value on a 4-digit LED display, output a 4-20mA signal and have 2 PNP alarm outputs.

The IIP-DISP uses a mechanically and chemically robust ceramic diaphragm making the unit suitable for most media types, an optional PVDF pressure port covers even more aggressive medium and there is a fat and oil free version for applications with oxygen.

The unit can be set up using the built-in front panel keys with access protection. Functions include configuration of the display, the setting and resetting of alarm points between 0 – 100% of the nominal input pressure, alarm hysteresis and switch on and switch off delay times.

An optional EX version is available for 4-20mA output only.

Typical Applications

Typical applications include:

Pneumatic & hydraulic control
Process Control
Tank level measurement
Compressors / pumping
Heating & Ventilation
OEM machines

Pressure Specification

Pressure Ranges	-1 -0, 0.6, 1, 1.6, 2.5, 4, 6,10,16,25,40,60,100,160,250,400,600
Pressure Datum	Gauge or Absolute
Overpressure	3, 3, 3, 7, 7, 12, 12, 25, 50, 50, 120, 120, 250,500,500,600,750

Output Specifications

Analogue Output		
Standard	2-wire 4 -20mA Vs = 18-41 Vdc	Ex-protection: Vs = 17 -28 Vdc
Optional	3-wire 0-10V Vs = 15-36 Vdc	
Accuracy	IEC 60770 < +/- 0.5% FSO	BFSL: < +/- 0.25% FSO
Permissible Load	Current 2-wire: Rmax = ((Vs-Vsmin)/0.02) Voltage 3-wire: Rmin = 10 k ohm	
Response Time	< 10mS	

Contact Output		
Number, type	1 or 2 independent PNP contacts	
Switching current	Standard: contact rating max. 125 mA, Ex-protection: max. switching current 70mA	Short-circuit resistant max permissible inductivity: 4.7 mH
Accuracy of contacts	IEC 60770 < +/- 0.5% FSO	BFSL: < +/- 0.25% FSO
Repeatability	< +/- 0.2% FSO	
Switching Frequency	Max 10 Hz	
Delay Time	0 – 100 sec	

Display

Display	
Type	4-digit red LED display, digit height 7mm digit width 4.85mm (angle 10 deg)
Range	-1999 to + 9999
Accuracy	0.1% +/- 1 digit
Digital damping	0.3 to 30 sec (programmable)
Measured value update	0.0 to 10 sec (programmable)

Miscellaneous

Weight	Approx 200 g
Vibration	5 g RMS (20 to 2000 Hz)
Shock	100 g / 11 mS
EMC Immunity	EN 50082-1 (< +/- 2% errors)
Thermal error for offset and span	<= +/- 0.2% FSO / 10K between -25 and 85 degC
Medium Temperature	-25 to 135 degC
Operating Temperature	-25 to 85 degC