

# SANITARY PRESSURE TRANSMITTER WITH DISPLAY

## PI10 SERIES

Electronic Pressure Sensor PI110

Sanitary Process Connection

4 to 20 mAmp Output

4 Digit LCD Display

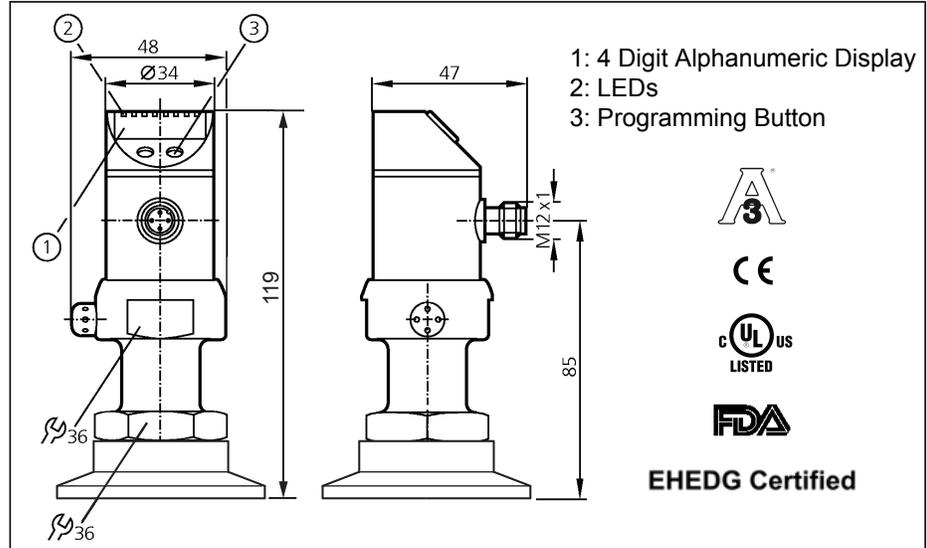
Freely Rotatable Housing 350°

Can be Locally or Remotely  
Programed via EPS Interface

Zero & Span Adjustable

Quickly Connects with Water Tight  
Standard M12 Industrial Connector  
(Cables and Connectors Sold Separatly)

Available in the following Ranges and  
% of Span with Field Selectable Scale



Model	PSI	BAR	MPa	"H <sub>2</sub> O	mBAR	kPa
PI1093	-14.40 to 362.7	-1.000 to 25.00	-0.100 to 2.500	--	--	--
PI1094	-14.50 to 145.0	-1.000 to 10.00	-0.100 to 1.000	--	--	--
PI1095	-14.50 to 58.00	-1.000 to 4.000	--	--	--	-100.0 to 400.0
PI1096	-1.800 to 36.26	-0.124 to 2.500	--	-49.78 to 1004	--	-12.40 to 250.0
PI1097	-0.730 to 14.50	--	--	-20.70 to 401.5	-50.0 to 1000	-5.000 to 100.0
PI1098	-0.180 to 3.630	--	--	-4.980 to 100.4	-12.40 to 250.0	-1.240 to 25.00
PI1099	-14.50 to 14.50	--	--	-401.5 to 401.5	-1000 to 1000	-100.0 to 100.0

### Applications

### Electrical Design

### Output

Operating Voltage [V]

Reverse Polarity Protection

Overload Protection

Integrated Watchdog

Analog Output

Load for Analog Output (Ohms)

Pressure Rating (min)

Bursting Pressure (min)

Accuracy / Deviations

(in % of span) Turn Down 1:1

Characteristics Deviation \*)

Linearity

Hysteresis

Repeatability \*\*)

Long-Term Stability \*\*\*)

Temperature Coefficients (TEMPCO)

in the Temperature Range of 0...80°C

(in % of the Span Per 10 K)

Greatest TEMPCO of the Zero Point

Greatest TEMPCO of the Span

Type of Pressure: Relative Pressure  
Hygienic Systems, Viscous Media and Liquids with Suspended Partivcles  
Liquids and Gases

DC

4...20 mAmp or 20...40 mAmp Analoga (Scaleble 1:4)

20...32 Volts DC

Yes

Yes

Yes

4...20 mAmp / 20...4 mAmp

Max. 300

4 x Pressure Rating

14 x Pressure Rating

< ±0.2

< ±0.15

< ±0.15

< ±0.1

< ±0.1

< ±0.05

< ±0.15

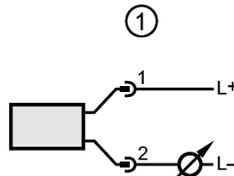


CHICAGO STAINLESS EQUIPMENT

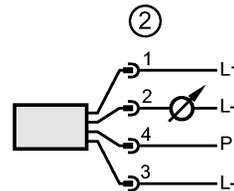
# SANITARY PRESSURE TRANSMITTER

Response Time Analog Output (ms)	40
Ambient Temperature (°C)	-25...80
Medium Temperature (°C)	-25...125 (145 max 1 Hr)
Storage Temperature (°C)	-40..100
Protection	IP67 / IP 69K, III
Insulation Resistance (MΩ)	> 100 (500 V DC)
Shock Resistance	DIN IEC 68-2-27: 50 g (11ms)
Vibration Resistance	DIN IEC 68-2-6: 20 g (10... 2000Hz)
Min. Pressure Cycles	100 Million
EMC	EN61000-4-2 ESD: 4kV CD / 8 kV AD EN61000-4-3 HF Radiated: 10V/m EN61000-4-4 Burst: 2kV EN 61000-4-5 Surge: 0.2/1 kV EN61000-4-6 HF Conducted: 10 V
Housing Materials	Stainless Steel 316L/1.4404; PC (Makrolon); PBT (Pocan); PEI; FPM (Viton); PTFE
Materials Wetted Surfaces	Stainless Steel 316L/1.4435; Ceramics (99.9% Al <sub>2</sub> O <sub>3</sub> ); PTFE; Ra < 0.4/Rz 4
Connection	M12 Connector; Gold-Plated Contacts
Remarks	The devise shall be supplied from an isolating source and protected by an overcurrent device such that the limited voltage circuit requirements in accordance with UL 508 are met. *) Linearity, Including Hysteresis and Repeatability; (limit value setting to DIN 16086) **) With Temperature Fluctuations < 10 K ***) In % of Span per Year

## Wiring



Normal Operatrion



Programming Operation  
(P = Communication via EPS/FDT Interface)

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Sani-Flow Pressure Gauges, Homogenizer Pressure Gauges, Industrial Stainless Steel Pressure Gauges, Digital Thermometers, Pharma-Flow Pressure Gauges, Chem-Flow Pressure Gauges, Electronic Sensors Cable, Sanitary Temperature Sensors & Thermowells.

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