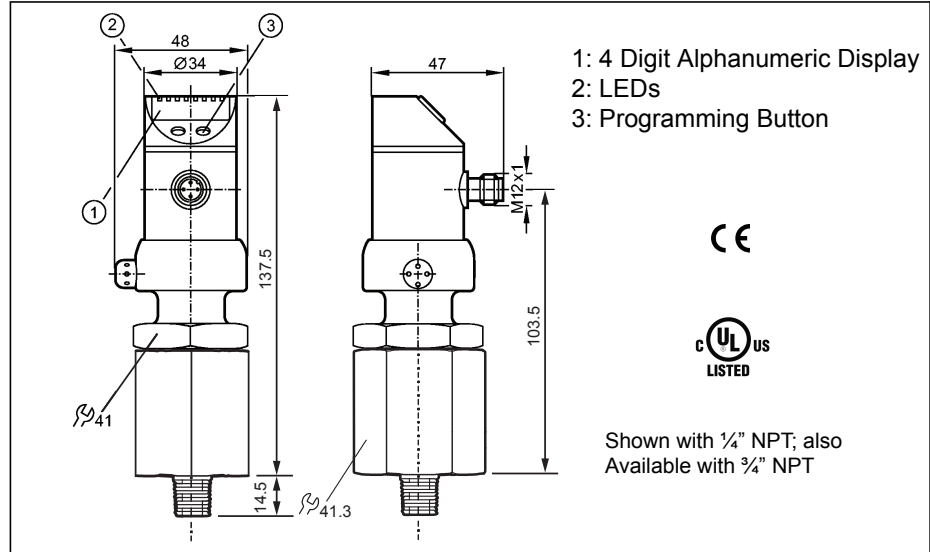


# INDUSTRIAL PRESSURE TRANSMITTER WITH DISPLAY

## PI16 SERIES

- Electronic Pressure Sensor PI16
- 1/4" or 3/4" Male NPT 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
PI1693	-14.40 to 362.7	-1.000 to 25.00	-0.100 to 2.500	--	--	--
PI1694	-14.50 to 145.0	-1.000 to 10.00	-0.100 to 1.000	--	--	--
PI1695	-14.50 to 58.00	-1.000 to 4.000	--	--	--	-100.0 to 400.0
PI1696	-1.800 to 36.26	-0.124 to 2.500	--	-49.78 to 1004	--	-12.40 to 250.0
PI1697	-0.730 to 14.50	--	--	-20.70 to 401.5	-50.0 to 1000	-5.000 to 100.0
PI1698	-0.180 to 3.630	--	--	-4.980 to 100.4	-12.40 to 250.0	-1.240 to 25.00
PI1699	-14.50 to 14.50	--	--	401.5 to 401.5	-1000 to 1000	-100.0 to 100.0

Applications	Type of Pressure: Relative Pressure Hygienic Systems, Viscous Media and Liquids with Suspended Partivcles Liquids and Gases
Electrical Design	DC
Output	4...20 mAmp or 20...40 mAmp Analoga (Scaleble 1:4)
Operating Voltage [V]	20...32 Volts DC
Reverse Polarity Protection	Yes
Overload Protection	Yes
Integrated Watchdog	Yes
Analog Output	4...20 mAmp / 20...4 mAmp
Load for Analog Output (Ohms)	Max. 300
Pressure Rating (min)	4 x Pressure Rating
Bursting Pressure (min)	14 x Pressure Rating
Accuracy / Deviations (in % of span) Turn Down 1:1 Characteristics Deviation *)	< ±0.2
Linearity	< ±0.15
Hysteresis	< ±0.15
Repeatability **)	< ±0.1
Long-Term Stability ***)	< ±0.1
Temperature Coefficients (TEMPCO) in the Temperature Range of 0...80°C (in % of the Span Per 10 K) Greatest TEMPCO of the Zero Point	< ±0.05
Greatest TEMPCO of the Span	< ±0.15

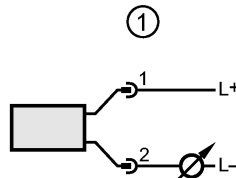


CHICAGO STAINLESS EQUIPMENT

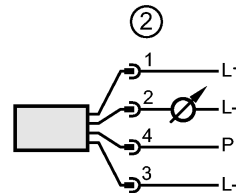
# INDUSTRIAL PRESSURE TRANSMITTER

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

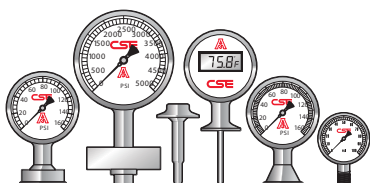


Normal Operation



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

Visit our website or request a catalog to see our complete line of high quality precision products including:  
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