

# TURCK

## Pressure Sensors

### PT4300 Pressure Sensor, Class 1 Div 2 Groups A, B, C & D

- UL/cUL 1604 (CSA 213) Class I Div 2 Groups A, B, C, D
- High Strength Stainless Steel Construction
- Ranges from Vacuum to 10,000 PSI
- Compatible with Wide Range of Liquids and Gases
- EMI/RFI Protection
- No Oil, Welds or Internal O-rings



The PT4300 is a media isolated stainless steel pressure sensor for use in hazardous areas. With its rugged construction without o-rings or welds, the PT4300 is the solution for pressure measurement for a variety of applications.

#### Applications

Refrigeration	Water management
Industrial OEM equipment	Oil & gas platforms
Pressure instrumentation	Process control
Gas compression & storage	Test stands
Oxygen delivery systems	Hydrogen fuel (316L)

#### Performance @25°C (77°F)

Accuracy*	<±0.25% BFSL
Stability (1 year)	±0.25%FS, typ
Over range protection	2X rated pressure
Burst pressure	5X or 20,000 psi (whichever is less)
Pressure cycles	> 100 million

\* Accuracy includes non-linearity, hysteresis & non-repeatability

#### Environmental Data

Operating temperature	-40 to +85°C (-40 to +185°F)
Storage temperature	-25 to +100°C (-13 to +212°F)
Compensated Range	0 to +55°C (30 to +130°F)
TC zero	<±1.5% of FS
TC span	<±1.5% of FS
Vibration test	10G peak, 20 to 2000 Hz
Shock test	100G, 11 msec, 1/2 sine
EMI/RFI protection	Yes
Rating	IP 66

#### Electrical Data

Output	4-20 mA	1-5 VDC, 1-6 VDC	0-50 mV	0.5-4.5 V Ratiometric
Excitation	10-28 VDC	10-28 VDC	5 VDC, typ	5 VDC, typ
Output impedance	>10k Ω	<100 Ω, nominal	1100 Ω, nominal	<100 Ω, nominal
Current consumption	20 mA, typ	<10 mA	<5 mA	<10 mA
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1 kHz	(-3dB): DC to 5 kHz, min	(-3dB): DC to 1 kHz
Output noise	-	<2 mV RMS	-	<2 mV RMS
Zero offset	<±1% of FS	<±1% of FS	<±2% of FS	<±1% of FS
Span tolerance	<±2% of FS	<±1.5% of FS	<±2% of FS	<±1.5% of FS
Output load	0-800 Ω @10-28 VDC	10k Ω, min	>1M Ω	10k Ω, min
Reverse polarity protection	Yes	Yes	-	No

## Class 1 Div 2 Pressure Transmitters Part Number Key

PT
100PG
-
4300
-
03
-
Li3
-
C0244
/
D811
\*
ft

<p><b>Sensor</b> PT = Pressure Transmitter</p> <p><b>Range</b> PSIG 25PV = -14.5 to 25 PSI 25PG = 0 to 25 PSI 50PG = 0 to 50 PSI 100PG = 0 to 100 PSI 200PG = 0 to 200 PSI 500PG = 0 to 500 PSI 1000PG = 0 to 1000 PSI 2500PG = 0 to 2500 PSI 5000PG = 0 to 5000 PSI 7500PG = 0 to 7500 PSI 10000PG = 0 to 10,000 PSI Bar 2BV = -1 to 2 bar 2BG = 0 to 2 bar 5BG = 0 to 5 bar 10BG = 0 to 10 bar 20BG = 0 to 20 bar 50BG = 0 to 50 bar 100BG = 0 to 100 bar 250BG = 0 to 250 bar 350BG = 0 to 350 bar 500 BG = 0 to 500 bar 700BG = 0 to 700 bar</p>	<p><b>Length of Cable</b> 2, 4, 6, 10</p> <p><b>Material</b> D811 = 316L</p> <p><b>Electrical Connections</b> VAS = DIN 43650-A C0244 = Conduit, Cable, 24AWG</p> <p><b>Electrical Features</b> Li3 = 4 to 20 mA LU4 = 0.5 to 4.5 V (ratiometric) LU64 = 1 to 5 V LU65 = 1 to 6 V LU71 = 10 mV/V</p>	<p><b>Process Connections</b> 02 = 1/4" NPT Female 03 = 1/4 NPT Male 04 = G1/4" Male 16 = 1/2" NPT Male</p>
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**Model**  
4300 = Class 1 Div 2

### Dimensional Drawings

