

proSense™ Pressure Sensors

AutomationDirect



Company Information

Systems Overview

Programmable Controllers

Field I/O

Software

C-more & other HMI

Drives

Soft Starters

Motors & Gearbox

Steppers/Servos

Motor Controls

Proximity Sensors

Photo Sensors

Limit Switches

Encoders

Current Sensors

Pressure Sensors

Temperature Sensors

Pushbuttons/Lights

Process

Relays/Timers

Comm.

Terminal Blocks & Wiring

Power

Circuit Protection

Enclosures

Tools

Pneumatics

Appendix

Product Index

Part # Index

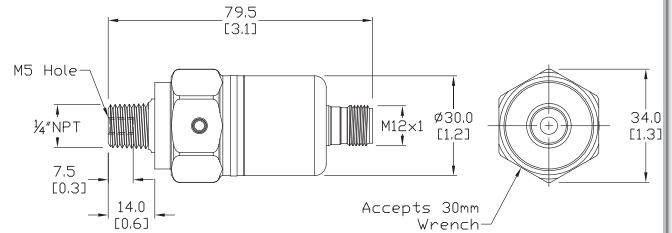
Applications (Type of Pressure: Relative Pressure, Liquids and Gases)			
Part Number	Measuring Range	Permissible Overload Pressure	Bursting Pressure
	PSI	PSI	PSI
PTD25-10-5000H PTD25-20-5000H	0 to 5000	11600	17400
PTD25-10-3000H PTD25-20-3000H	0 to 3000	5800	12300
PTD25-10-1000H PTD25-20-1000H	0 to 1000	4350	9400
PTD25-10-0500H PTD25-20-0500H	0 to 500	2175	5075
PTD25-10-0200H PTD25-20-0200H	0 to 200	1087	2175
PTD25-10-0100H PTD25-20-0100H	0 to 100	1087	2175
PTD25-10-0030H PTD25-20-0030H	0 to 30	290	725
PTD25-10-0015H PTD25-20-0015H	0 to 15	145	450
PTD25-10-VH PTD25-20-VH	-14.5 to 0 (vacuum)	145	450
	inH₂O	inH₂O	inH₂O
PTD25-10-0100WCH PTD25-20-0100WCH	0 to 100	4015	12043

inH₂O = Inches of Water (represents Water Column)

All PTD25 series transmitters can withstand vacuum down to -14.5 psi

Dimensions

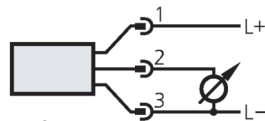
mm [inches]



PTD25-10 Wiring Diagrams



Cable Assembly Wiring Colors:
Pin 1 - Brown
Pin 2 - White
Pin 3 - Blue
Pin 4 - Black

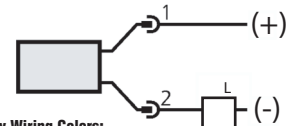


See Proximity Sensor section for cable specs

PTD25-20 Wiring Diagrams



Cable Assembly Wiring Colors:
Pin 1 - Brown
Pin 2 - White
Pin 3 - Blue
Pin 4 - Black



See Proximity Sensor section for cable specs

Note: Wiring colors are based on AutomationDirect CD12L and CD12M 4-pole cable assemblies.

Pressure Units Conversion Chart

Pressure Conversion Table: Multiplication Factors									
Desired Units	Known Units								
	Atmos	Bars	In of Hg (0°C)	In of H ₂ O (4°C)	K grams/meter ²	Lb/in ² (psi)	Lb/ft ²	mm of Hg torr	Pascals
Atmos	1	9.86923 x 10 ⁻¹	3.34207 x 10 ⁻²	2.458 x 10 ⁻³	9.678 x 10 ⁻⁵	0.068046	4.7254 x 10 ⁻⁴	1.316 x 10 ⁻³	9.869 x 10 ⁻⁶
Bars	1.01325	1	3.3864 x 10 ⁻²	2.491 x 10 ⁻³	9.8067 x 10 ⁻⁵	6.8948 x 10 ⁻²	4.788 x 10 ⁻⁴	1.333 x 10 ⁻³	10 ⁻⁵
In of Hg (0°C)	29.9213	29.53	1	7.355 x 10 ⁻²	2.896 x 10 ⁻³	2.036	0.014139	3.937 x 10 ⁻²	2.953 x 10 ⁻⁴
In of H ₂ O (4°C)	406.8	401.46	13.60	1	3.937 x 10 ⁻²	27.68	0.1922	0.5354	4.014 x 10 ⁻³
K grams/meter ²	1.033227 x 10 ⁴	1.0197 x 10 ⁴	345.3	25.40	1	7.0306 x 10 ²	4.882	13.59	1.019 x 10 ⁻¹
Lb/in ² (psi)	14.695595	14.504	0.4912	3.6126 x 10 ⁻²	1.423 x 10 ⁻³	1	6.9444 x 10 ⁻³	1.934 x 10 ⁻²	1.450 x 10 ⁻⁴
Lb/ft ²	2116.22	2088.5	70.726	5.202	0.2048	144.0	1	2.7844	2.089 x 10 ⁻²
mm of Hg torr	760	750.06	25.400	1.868	7.3558 x 10 ⁻²	51.715	0.35913	1	7.502 x 10 ⁻³
Pascals	1.01325 x 10 ⁵	1 x 10 ⁵	3.386 x 10 ³	2.491 x 10 ²	9.8067	6.8948 x 10 ³	4.788 x 10 ¹	1.333 x 10 ²	1

Example: To convert from 50 psi to "In of H₂O", (50 psi) (27.68) = 1384 In of H₂O