

Design/Application:

The PTS-4000 differential pressure transducer sensor is capable of sensing ultra low differential while operating on the capacitance principal. An ultra lightweight, responsive diaphragm resides in the capacitance cell and deflects slightly when pressure is applied. This slight deflection produces a change in capacitance, which is read and converted electronically into an output signal which is linear to the differential pressure.

Technical Specifications:

Process Input Connection: Pneumatic 1/4" barb fitting

Enclosure: NEMA 1 fire-retardant ABS

Pressure Media: Non-Corrosive dry gases

Operable Line Pressure: 25 psi maximum static line pressure

Differential Overpressure: 15 psi proof and 25 psi burst pressure

Vibration: <0.05% F.S. temporary effect with 5g's, 0-60 Hz

Electrical Information:

Output 0 ~ 5 VDC / 0 ~ 10 VDC (3 wire) or 4 ~ 20 mA (2 wire)
 Supply power 11.5 ~ 36 VDC (5V output)
 14 ~ 36 VDC / 24 VAC (10V output)
 Supply current 4.5 mA (5V) / 6.0 mA (10V)
 Connections Pluggable terminal block, accepts 12 -26 gauge wire

Available Full Scale Ranges	
No.	Inches w.g.
1	0.10
2	0.25
3	0.50
4	1.00
5	2.00
6	3.00
7	5.00
8	10.0
9	15.0
10	25.0



Accuracy (full scale at 70° F):

Standard	Optional
±0.80%	±0.40%

Environmental Attributes:

Storage -40 ~ 180° F (-40 ~ 82° C)
 Operating 0 ~ 160° F (-18 ~ 70° C)
 (10-95% R.H. non-condensing)
 Compensation Range 35 ~ 130° F (1.7 ~ 54° C)

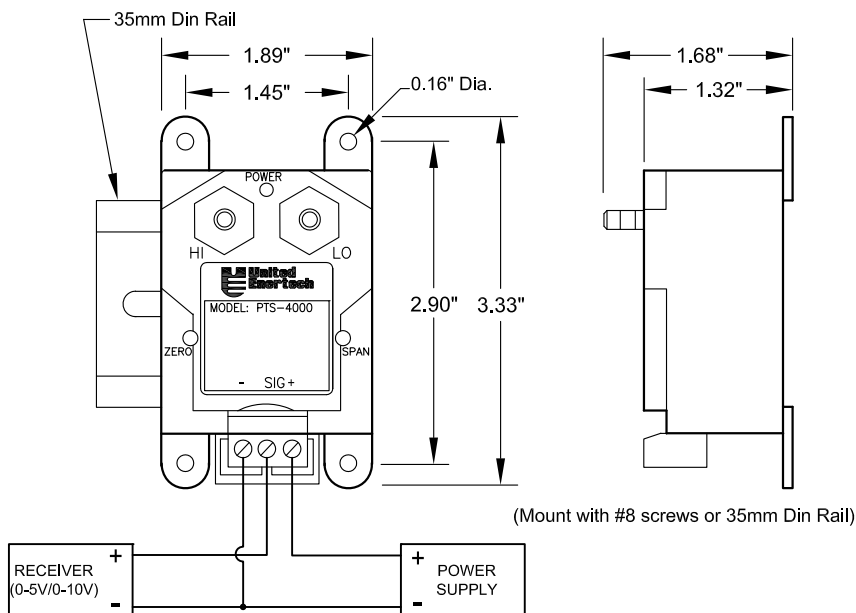
Approximate Weight: 2.5 OZ

PTS-4000 Ordering Information:

PTS-4

Accuracy:	1 = 0.80% (Standard)
	2 = 0.40% (Optional)
Output:	2 = 0-5 VDC
	3 = 0-10 VDC
	4 = 4-20 mA
Full Scale Range:	1 = 0.10" wg
	2 = 0.25" wg
	3 = 0.50" wg
	4 = 1.0" wg
	5 = 2.0" wg
	6 = 3.0" wg
	7 = 5.0" wg
	8 = 10.0" wg
	9 = 25.0" wg
	10 = 25.0" wg
	0 = other (specify)

PTS-4000 Dimensions and Wiring Diagram



Due to continuing research, United Enertech reserves the right to change specifications without notice.

Job Name:	<input type="checkbox"/> Model PTS-4000		
Location:	Differential Pressure Transducer Sensor		
Architect:	DRAWN BY:	DATE:	REV. DATE:
Engineer:	CLJ	5-16-13	2-18-14
Contractor:	REV. NO.	APPROVED BY:	DWG. NO.:
	2	MD	O-5