

Measurement Solutions

MSPT12 Series HVAC/R Pressure Transducers

Amplified Output / 0.5% Error band



MSPT12 Series HVAC/R pressure transmitter adopts diffused silicon sensor technology, with compact configuration, and, depressor pin design for opening 'Schrader Valve'. Electrical performance and long-term stability make it the ideal choice for the Air Conditioning, HVAC, Refrigeration, and, compressor applications.

Pressure measurement ranges (PSI):

Wide selection of ranges from Vacuum to 10000 PSI (ex: Vac-150; 0-500, 0-10K, etc...)
Reference: Gauge, Compound, or, Absolute.

Specifications:

Excitation: 9-36 VDC; (5 Vin for 0.5-4.5 Vout).
Output: 4 - 20 mA; 0 - 5 VDC; 0.5 - 4.5 VDC.
Accuracy: +/- 1.0% FS; optional 0.5% (RSS non-linearity, non-repeatability, & hysteresis).
Response Time: 1 mSec.
Temperature Range: Compensated -10 to +75 C, Operating -20 to +80 C.
Fatigue Life: 100 Million Cycles.
Vibration: 40G max to 1000 Hz.

Pressure port:

Thread: 7/16"-20 UNF Female, with Depressor Pin (other ports available);
 Wetted materials: Stainless Steel, and, Buna-N (others materials available).

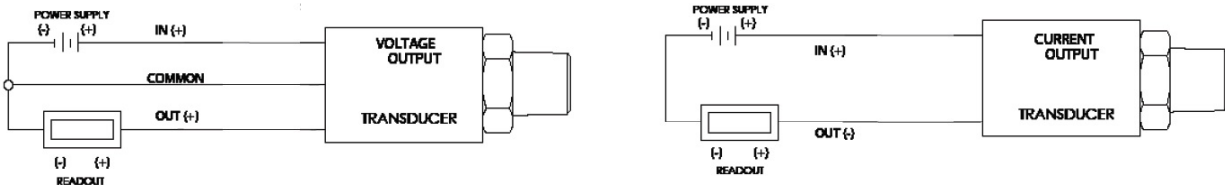
Electrical:

Packard Connector.

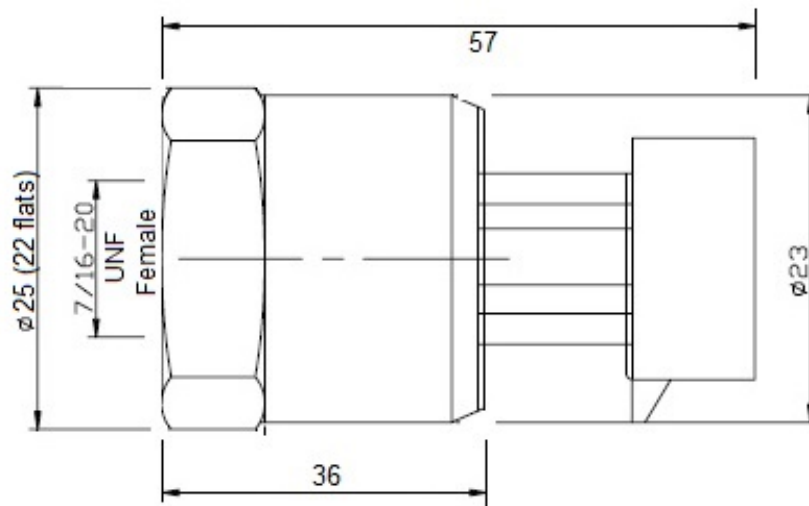
Pin Code: 3-wire (V out): 1 +Power, 2 Common, 3 +Signal;
 2-wire (mA out): 1 +Power, 2 -Power, 3 not used.

(other connectors available).

Wiring diagram:



Dimensions:



Ordering Information:

MSPT12-[range][reference]-[output]-[fitting]-[electrical]-[option1]-[option2]

Example 1: 0.5-5 VDC output, 150 PSI range, Gauge reference,
 7/16-20 UNF Female pressure port, Packard connector, and, 1.0% error band:
 P/N: MSPT12-150PG-4.5V-716F-P-0-0.

Example 2: 4-20 mA output, -14.7 to +500 PSI range, Compound reference,
 7/16-20 UNF Male pressure port, Packard connector, and, 0.5% error band:
 P/N: MSPT12-500PC-420mA-716F-P-0.5-0.