Air and Gas Pressure Transducers, mA or VDC

Specifications subject to change without notice. | USA 200204 | Page 1 of 2



DESCRIPTION 750D

Very low range gage and differential pressure transducers.

APPLICATION

Measure gage or differential pressure of air or inert non-conductive gases in laboratories, isolation and clean rooms, and for building room statics, fume hoods, VAV, and other air conditioning applications. The transducers transmit to any compatible electronic analog controller, DDC/PLC control or automation system.

FEATURES

- Signal conditioned
- Temperature compensated
- Long life sensor
- Compact size

- Lifetime stability of ± 0.5% F.S.O.
- Accuracy of 0.25% or 0.75% F.S.O.
- · Auto-zeroing
- No re-calibration required



Enclosure w/DIN rail mounting

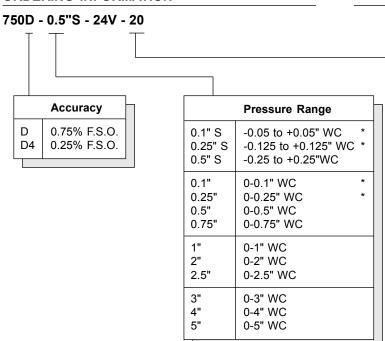
SPECIFICATIONS

Electrical Load requirement	
Power supply 24 VDC - current output	Max loop resistance 500 Ω
24 VAC, + 15%, 50 to 60 Hz	@ 24 VDC power
Power comsumption 70 mA, 100 mA peak	(= wire resistance, plus controller
Sensor Performance	input resistance)
Media sensed Dry air or inert non conductive - voltage output	Min load 2K Ω
gas Environmental	
Sensor element Piezoresistive, with silicon Permissible ambient	
diaphragm - humidity	0 to 90%, RH non-condensing
Compensation Built-in temperature and signal - working temperature	32°F to 149°F (0°C to 65°C)
conditioning - storage temperature	32°F to 149°F (0°C to 65°C)
- range 41°F to 140°F (5°C to 60°C) Physical	
Accuracy Enclosure	
- D4 version ± 0.25% F.S.O material	High impact ABS, fire retardant
- D version, 1-5" WC	Black
- D version, < 1" WC ± 1.00% F.S.O protection	NEMA 1
Stability \pm 0.5% F.S.O. over the life of - installation	Surface mounted or
transducer	DIN rail mounted
Thermal effects $\pm 0.006\%$ /°F ($\pm 0.01\%$ /°C) Dimensions	3 x 1.5 x 4.3 in.
Adjustment	(76 x 38 x 11 mm), with
- zero offset Screw adjustable, up to	mounting flanges
85% of F.S.O. Wire connection	Pig tail cable,
Auto-zeroing Every 45 sec., no need to adjust	3-wire, color coded
zero point after initial start-up Wire size	22 AWG (0.34 mm ²)
Pressure ranges 0-0.1" WC to 0-5" WC (split Pressure connection	Brass barbed fittings for 1/8" or
ranges available), refer to	1/4" I.D. tubing
ordering information - P1. high port	Positive or high pressure
Overpressure 14.5 PSI - P2. low port	Negative or low pressure
Type of Control Weight	0.36 lb. (0.16 kg)
General Continuous proportional analog Warranty	Two years material and
sensor signal output	workmanship
Analog output	
- current version 4-20 mA OPTIONS	
- voltage versions 1-5 VDC, 1-6 VDC, or 1-10 VDC N4	NEMA 4 enclosure

D



ORDERING INFORMATION



Custom split ranges are available on request.

note: * Only available with "D" version, 0.75% accuracy

Sample order number

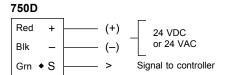
750D-0.5"S-24V-20
Differential or gage **
pressure transducer,
0.75% accuracy, auto-zeroing,
-0.25 to +0.25" WC
split pressure range for 24 VDC
or 24 VAC power supply,
4-20 mA output signal

** With gage application, the low pressure port is vented to atmosphere.

With NEMA 4 enclosure add "N4" to the ordering part number.

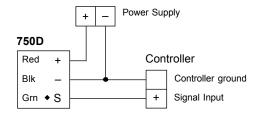
WIRING CONFIGURATION

750D...



For AC voltage application, transducer must be referenced to controller ground.

3-Wire to 2-Wire Connection



Be Alert: Do not apply voltage to S terminal as permanent damage will occur.

Add 250 Ω resistor at controller input to convert transducer signal 4-20 mA to 1-5 VDC.

