

Liquid "Wet-to-Wet" and Gas Pressure Transducers



560G/D

DESCRIPTION

Low and medium range gage and differential pressure transducers.

APPLICATION

Measure gage or differential pressure of any harsh media, wet or dry, in chiller, refrigerant, boiler, pump, compressor, tank level, and other air conditioning equipment, and transmit to any compatible electronic analog controller, DDC/PLC control or automation system.



certified
ISO 9001

FEATURES

- Gage or differential pressure
- Stainless steel wetted parts
- Signal conditioned
- Temperature compensated
- Long life sensor
- Low power consumption
- Calibrated, traceable to NIST
- High overpressure
- NEMA 4 enclosure

SPECIFICATIONS

Electrical

Power supply 24 VDC
24 VAC, $\pm 15\%$, 50 to 60 Hz
Power consumption 35 mA

Sensor Performance

Media sensed Any media, wet or dry, compatible with series 300 stainless steel
Sensor element Piezoresistive, with silicon diaphragm
Compensation Built-in temperature and signal conditioning
- range 32°F to 122°F (0°C to 50°C)
Accuracy $\pm 0.5\%$ F.S.O.
Stability $< \pm 0.5\%$ F.S.O./yr.
Thermal effects $\pm 0.01\%$ F.S.O./°F ($\pm 0.02\%$ F.S.O./°C)
Adjustment (2) pots
- zero and span 10% of F.S.O., minimum
Pressure ranges 0-2 PSI to 0-500 PSI, refer to ordering information
Overpressure Two times full pressure range or 700 PSI, whichever is less

Type of Control

General Continuous proportional analog sensor signal output
Analog output
- current version 4-20 mA
- voltage versions 0-5 VDC or 0-10 VDC
Load requirement
- current output Max loop resistance 700 Ω @ 24 VDC power (= wire resistance plus controller input resistance)
- voltage output Min load 2K Ω

Environmental

Permissible ambient
- humidity 0 to 99% RH, non-condensing
- working temperature -13°F to 158°F (-25°C to 70°C)
- storage temperature -13°F to 158°F (-25°C to 70°C)

Physical

Enclosure
- material High impact ABS, fire retardant
- color Light gray
- protection NEMA 4
- installation Surface mounted or DIN rail mounted

Dimensions 5.2 x 3.7 x 2.3 in. (130 x 94 x 57 mm)

Wire connections Internal screw terminals, 22 AWG (0.34 mm²)

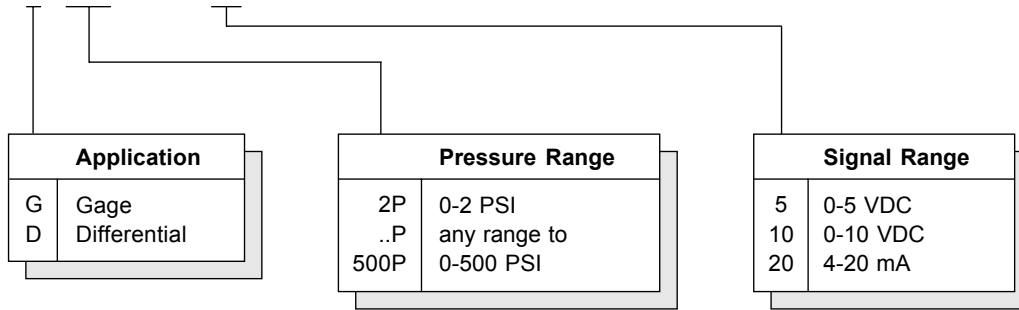
Pressure connection 1/8" NPT female
- P1. high port Positive or high pressure
- P2. low port Negative or low pressure

Weight 0.8 lb. (0.37 kg)

Warranty Two years material and workmanship

ORDERING INFORMATION

560D - 30P - 24V - 20

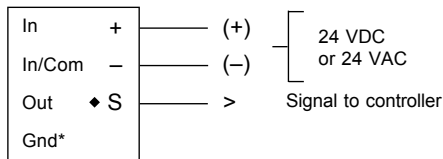


Sample order number 560D-30P-24V-20
 Differential pressure transducer, 0-30 PSI pressure range, for 24 VDC or 24 VAC power supply, 4-20 mA output signal

WIRING CONFIGURATION

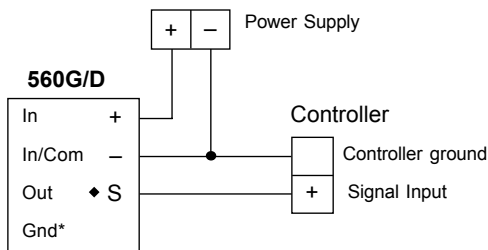
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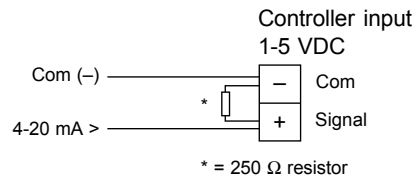


For AC voltage application, transducer must be referenced to controller ground.

3-Wire to 2-Wire Connection



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



* Gnd is common to In/Com (-)

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