

# Liquid “Wet-to-Wet” and Gas Pressure Transducers

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



## DESCRIPTION

560G/D

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.

## 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



certified  
ISO 9001

## 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 $\Omega$ @ 24 VDC power (= wire resistance plus controller input resistance)
- voltage output	Min load 2K $\Omega$

### 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)
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Wire connections	Internal screw terminals, 22 AWG (0.34 mm <sup>2</sup> )
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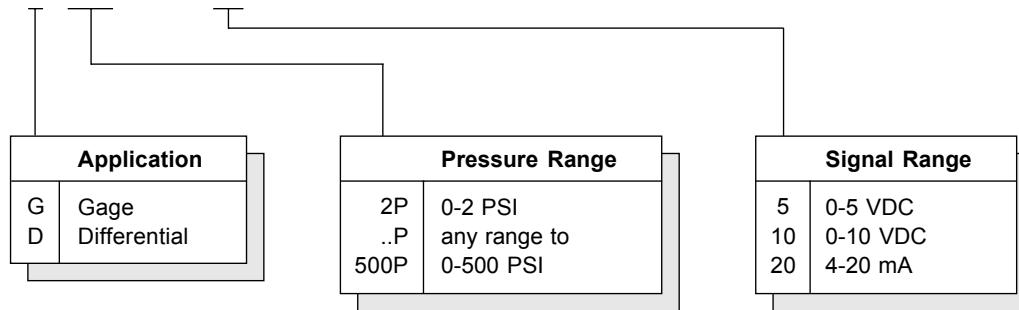
Pressure connection	1/8" NPT female
- P1. high port	Positive or high pressure
- P2. low port	Negative or low pressure
Weight	0.8 lb. (0.37 kg)

### Warranty

Two years material and  
workmanship

## ORDERING INFORMATION

### 560D - 30P - 24V - 20



#### Sample order number

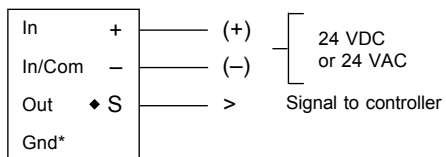
560D-30P-24V-20

Differential pressure transducer, 0-30 PSI  
 pressure range, for 24 VDC or 24 VAC  
 power supply, 4-20 mA output signal

## WIRING CONFIGURATION

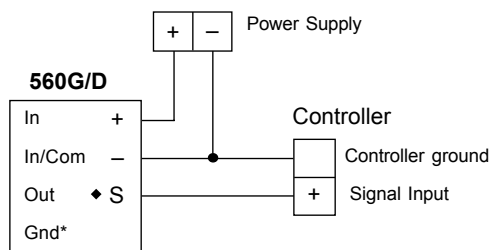
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For AC voltage application,  
 transducer must be referenced  
 to controller ground.

#### 3-Wire to 2-Wire Connection



\* Gnd is common to In/Com (-)

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

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

