

MODEL 560 TRANSDUCER INSTALLATION

The Model 560 Pressure Transducer is available in both Differential and Gauge configuration, in ranges from 0-2 to 0-500 PSI. This Transducer features a NEMA 4 enclosure and series 300 stainless steel wetted parts making it compatible with most wet and dry media. Pressures are converted to three standard outputs, 0-5 VDC, 0-10 VDC and 4-20 mA with an accuracy of +/- 0.5% F.S.O..

INSTALLATION

1. Location- the model 560 Pressure Transducer should be placed in as dry and vibration free a location as possible. If possible, mount with connectors facing down to aid in moisture drainage.

2. Pressure Connections- the 560 Series Transducer uses 2 (Differential) or 1 (Gauge) 1/8" NPT female fittings. Always use a wrench to hold the transducer fittings while tightening the mating connection.

3. Mounting- Attach the Model 560 Transducer using 4, 1/8" fasteners. The mounting holes are located on the Four Corners of the box, below the top cover.

ELECTRICAL CONNECTIONS

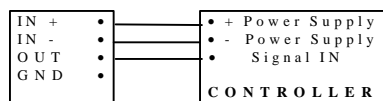
All electrical connections to the 560 series Transducer are made to the internal four

wire terminal strip. An external power supply delivering 24 VAC/24 VDC, with a minimum of 35 mA is required to drive the unit.

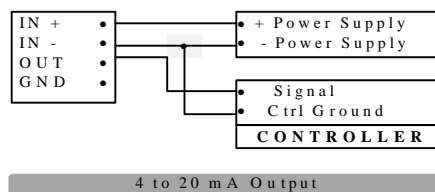
The four wire terminal strip supplied with the 560 series Transducer is labeled as follows, +IN (Supply Positive), -IN (Supply Negative), OUT (Signal Out), GND (Common to Supply Negative).

CAUTION: Do not exceed specified supply voltage. **Do not** apply voltage to **OUT** terminal, as permanent damage will occur.

3 WIRE CONNECTION



3 WIRE TO 2 WIRE CONNECTION



CONVERTING 4-20mA TO 1-5VDC

560 Series Pressure Transducers with a 4-20mA output can be easily adapted to receivers requiring 1-5 VDC input. Insert a 250 ohm resistor between the + and - controller input terminals. This will safely

convert the 4 to 20 mA signal to the desired voltage.

OFFSET AND SPAN

Two adjustments are offered with the 560 series pressure transducer, offset and span. After initial installation, the offset and span can be adjusted by removing the top cover and adjusting the labeled pots located on the edge of the PCB. With the transducer installed and no pressure applied, place a meter between the supply negative and the output terminal to set the zero. Apply full-scale pressure and adjust the span to the required voltage or current reading. Repeat process until desired reading is attained.

CUSTOMER SERVICE

If any problems are encountered during installation please call the number below for assistance

Call 1-800-735-8998

For the most up to date information on all of our products visit our website at:

www.autotraninc.com

AutoTran Incorporated

7638 Washington Ave. S

Eden Prairie, MN 55344

Phone: 1-800-735-8998

(952)942-8743

Fax: (952) 942-8753

DOC# 1200-075 REV. E Issue Date: 03/31/04