



# PNEU-01, PNEU-05, PNEU-15

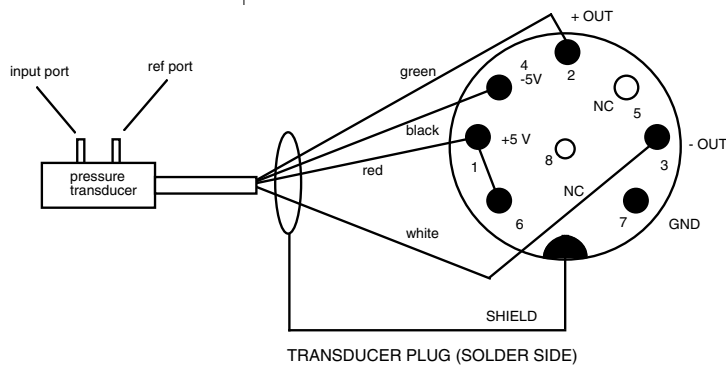
## Pressure Transducers

### Operation and Use

PNEU transducers are accurate differential pressure measuring devices designed for use with non-corrosive gases. Linear and repeatable, with little temperature drift, PNEU transducers will convert hydrostatic pressure levels to stable and proportional voltage signals within an ambient temperature range of 0° to 70° C.

There are two pressure ports. Positive pressure applied to the port farthest from the plug, the input port, will result in a positive voltage deflection for pressure that is positive relative to pressure applied to the reference port. When the reference port is left open to atmospheric pressure, "gauge" pressure will be indicated. To avoid permanent damage to this device, do not apply pressure greater than 2x the full scale pressure rating of the transducer.

The wiring connections for WPI's 8-



pin connector are shown below. This connector is compatible with **Transbridge** (WPI Part #TBM4M), a four-channel amplifier transducer manifold, and **Bridge-8** (rack-mountable amplifier modules). If the user wishes to rewire the transducer to a different plug, the color-coded wires should be connected to conform to the required DC voltage, polarity and signal output connections as shown.

### Specifications

#### Working Pressure

PNEU-01
0-1 PSI, DIFF (52 mm Hg)
PNEU-05
0-5 PSI, DIFF (260 mm Hg)
PNEU-15
0-15 PSI, DIFF (776 mm Hg)

#### Supply Voltage

10 V to 30 V

#### Input and Output Resistances

4 K Ohms, nominal

#### Response Time

100  $\mu$ s

#### Linearity Error

$\pm 0.2\%$  FSO to  $\pm 1.0\%$  FSO

#### Impedance

4.0 K $\Omega$

#### Port Size

0.19 in. (4.8 mm) diam.

### Sensitivity

<b>PNEU-01</b>	18 mV, full scale	18 mV/PSI	20 PSI (max. pressure before failure)
<b>PNEU-05</b>	60 mV, full scale	12 mV/PSI	20 PSI (max. pressure before failure)
<b>PNEU-15</b>	90 mV, full scale	6 mV/PSI	30 PSI (max. pressure before failure)



*\* Electrodes, batteries and other consumable parts are warranted for 30 days only from the date on which the customer receives these items.*

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## Warranty

WPI (World Precision Instruments, Inc.) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of one year\* from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

## Claims and Returns

- Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment. Please save damaged or pilfered cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.

- WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.

- Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.

- Goods returned for repair must be reasonably clean and free of hazardous materials.

- A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.

- Equipment which was built as a special order cannot be returned.

- Always refer to the RMA# when contacting WPI to obtain a status of your returned item.

- For any other issues regarding a claim or return, please contact the RMA department

**Warning: This equipment is not designed or intended for use on humans.**

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