

CAUTIONS:

- ⇒ Disconnect the power supply before installation.
- ⇒ Do not exceed the ratings of the device.
- ⇒ Make all connections in accordance with the wiring diagram and electrical codes.
- ⇒ Particles in the air supply larger than 0.03 microns may adversely affect the reliability and life of the transducer. A K-335 in line air filter is recommended for installation between the main air supply and the main air port of the device.
- ⇒ A refrigerated air dryer, particulate filter, and coalescing filter should provide a quality air supply.
- ⇒ Compressor oil must be non-paraffin mineral base or naphtha base. Synthetic base oils will destroy pneumatic controls and void the warranty.
- ⇒ Do not locate the unit in areas subject to incidental contact, vibration, severe mechanical shock, excessive moisture, or corrosive fumes.
- ⇒ The ETP-9500, ETP-9510 and ETP-9520 transducers must be mounted within 5° of the upright position. See the "UP" arrow on the PCB or label.

ETP 9500 series

The Electronic to Pneumatic transducer provides a linear 3-15 psi output in response to a 4-20mA, 0-10Vdc or PWM input.

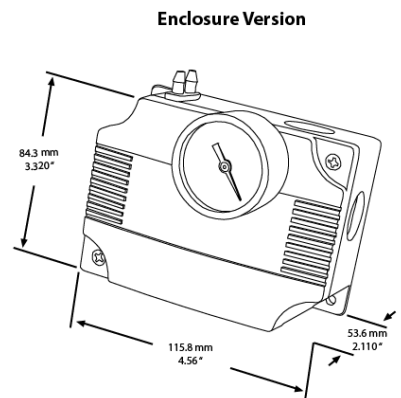
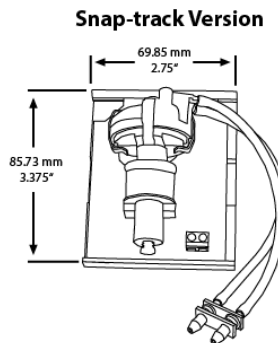
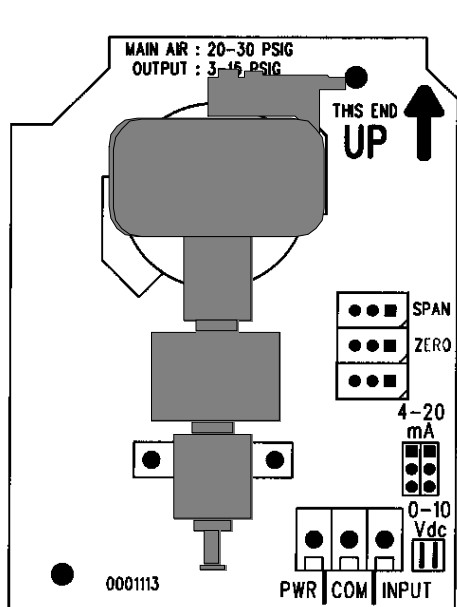
INSTALLATION:

1. Select the mounting location and mount the device with the "UP" arrow pointing up using two screws through the base of the snap track. The PCB may be removed from the snap track for easier installation. Ensure that the screw heads do not contact the PCB.
2. Make all necessary electrical connections as per the wiring examples. The ETP-9520 is a loop powered 4-20 mA device and requires a 4-20 mA signal to be connected to the INPUT terminal and the system common connected to the COM terminal. The ETP-9500 requires a jumper selection for the input signal type, either 4-20 mA or 0-10 Vdc. If 4-20 mA is selected then the wiring is the same as for the ETP-9520, however if a 0-10 Vdc signal type is selected then a power supply signal must also be provided on the PWR terminal. Make sure that the shorting bars on the jumper run the same direction as the indicating lines beside the jumper. The ETP-9510 is a loop powered 2-10 volt device and requires a 2-10 Vdc signal to be connected to the INPUT terminal and the system common connected to the COM terminal
3. Connect the pneumatic lines to the unit, ensuring that the main air supply is connected to the black tube and the branch line is connected to the clear tube. The main and branch lines are also labeled on the end of the valve with a "M" and a "B".
4. The device may be tested by applying the input ZERO signal (either 4 mA, 2 Vdc or 0 Vdc as applicable) and checking the output for a pressure of 3 psig (21 kPa). Then adjust the input for the SPAN signal (either 20 mA or 10 Vdc) and re-check the output for a pressure of 15 psig (103 kPa). The device is factory calibrated for these ranges and should not be readjusted in the field.
5. If the unit does not perform as indicated in step 4, then verify all applicable electrical signals (4 mA, 20 mA, 0 Vdc, 10 Vdc, and the power supply) using a multimeter. Also verify that the input air supply is 20-30 psig (138-207 kPa) and that the unit is properly mounted and that all wiring is per the wiring examples.

Specifications: ETP-9500/9510/9520

Input Signal	ETP-9500, 4-20mA or 0-10Vdc, jumper selectable ETP-9510, 2-10Vdc, 2-wire ETP-9520, 4-20mA, 2-wire
Input Impedance	4-20mA input, 400 Ω minimum, 550 Ω maximum 0-10Vdc input, >100 K Ω
Power Supply	4-20mA input, Loop powered 0-10Vdc input, 24-30 Vac/dc, 1.0 Watt maximum
Air Supply	138 kPa (20 psig) nominal, 207 kPa (30 psig) maximum Clean, dry, oil-free air required.
Air Consumption	5.66 ml/s (0.012 scfm) @ 138 kPa (20 psig) supply, maximum
Output Air Capacity	141 ml/s (515 scim) maximum @ 138 kPa (20 psig) supply
Air Connections	Male barbed fittings for flexible 1/4" OD pneumatic tubing
Wiring Connections	Screw terminals for 14 – 22 AWG wire
Output Signal	21-103 kPa (3-15 psig) nominal, direct acting
Manufacturing Process	ISO 9002 certified
Linearity	±1% of span
Hysteresis	±1% of span
Adjustments	Zero and span potentiometers
Operating Temperature	0°C – 60°C (32°F – 140°F)
Operating Humidity	5-95% RH, non-condensing
Dimensions H x W x D (Snap-Track model)	83mm x 70mm x 50mm (3.25" x 2.75" x 2")

PWR – 24Vac/dc (For ETP-9500, 0-10Vdc only)
COM – POWER/SIGNAL COMMON
INPUT – 0-10Vdc OR 4-20mA



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