





ELECTRONIC TO PNEUMATIC TRANSDUCER

ETP Series

The ETP-9500 series transducers convert an electrical input signal to a pneumatic output signal to position pneumatic damper and valve actuators in HVAC systems. The ETP- 9520 accepts an industry standard 4-20 mA current input signal and produces a proportional 21 to 103 kPa (3 to 15 PSIG) pneumatic output. The ETP-9500 offers more flexibility as it is field selectable to accept either a 4-20 mA or a 0 to 10 Vdc input signal to control the 2 to 103 kPa (15 to 15 PSIG) pneumatic output.

The ETP-9520 is powered by the process loop signal and requires no power supply. The ETP-9500 is also loop powered in the 4-20 mA configuration and will accept a wide range of AC or DC power supply voltages in the 0 to 10 Vdc mode.

PRODUCT HIGHLIGHTS

* Direct connection to PCs for pneumatic control
* Two-wire loop powered or three-wire voltage modes
* Easily accessible wiring terminal blocks
* Quick panel mounting with supplied snap-track
* High accuracy with low hysteresis
* Driftless operation with high repeatability
* AC/DC operation

SPECIFICATIONS



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| DESCRIPTION | ENGINEERING SPEC |
| INPUT SIGNAL | ETP-9500: 4-20 mA or 0 to 10 Vdc, jumper selectable  ETP-9510: 2 to 10 Vdc, 2 wire  ETP-9520: 4-20 mA, 2 wire |
| INPUT IMPEDANCE | 4-20 mA input, 400 Ω minimum, 550 Ω maximum  0 to 10 Vdc input, >100 Ω |
| POWER SUPPLY | 4-20 mA input, loop powered, 2 to 10 Vdc, 24 to 30 Vac/dc, 1.0 watt max. |
| 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 SCIM) maximum @ 138 kPa (20 PSIG) supply, maximum |
| OUTPUT AIR CAPACITY | 141 ml/s (515 SCIM) maximum @ 138 kPa (20 PSI) supply |
| MAX/MIN SPAN | 97 kPa (14 PSIG) / 55 kPa (8 PSIG) |
| LOWEST/HIGHEST OFFSET | 7 kPa (1 PSIG) / 41 kPa (6 PSIG) |
| AIR CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| OUTPUT SIGNAL | 21 to 103 kPa (3 to 15 PSIG) nominal, direct acting |
| LINEARITY | ±1% of span |
| HYSTERESIS | ±1% of span |
| ADJUSTMENTS | Zero and span potentiometers |
| OPERATING CONDITIONS | 0 to 60°C (32 to 140°F) 5 to 95 %RH non-condensing |
| DIMENSIONS | 69.85mm W x 85.73mm H (2.75” x 3.375”)  E Option: 115.8mm W x 84.3mm H x 53.6mm D (4.56” x 3.32” x 2.11”) |
| COUNTRY OF ORIGIN | Canada |