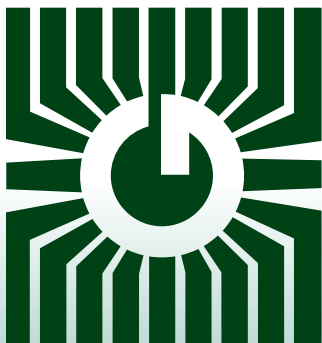


GREYSTONE

ACCURACY BY DESIGN



ELECTRONIC TO PNEUMATIC TRANSDUCER ETP Series



Precision pneumatic control

FEATURES:

- Direct connection to PCs for pneumatic control
- Two-wire loop powered or three-wire voltage models
- 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

*Peace of mind
through reliable
pneumatic transducers*

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM

APPLICATIONS:

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 - 20mA current input signal and produces a proportional 21 - 103 kPa (3 - 15 psig) pneumatic output. The ETP-9500 offers more flexibility as it is field selectable to accept either a 4 - 20mA or a 0 - 10 VDC input signal to control the 21 - 103 kPa (3 - 15 psig) pneumatic output.

The ETP-9520-PW accepts a field selectable pulse width signal to control the 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 - 20mA configuration and will accept a wide range of AC or DC power supply voltages in the 0 - 10 VDC mode. The ETP-9520-PW requires a 24 VDC or 22 to 28 VAC power supply.

SPECIFICATIONS: ETP-9500 / 9510 / 9520

| | | | |
|-------------------------------------|--|------------------------------|---|
| Input Signal | ETP-9500 , 4-20 mA or 0-10 Vdc, jumper selectable ETP-9510 , 2-10 Vdc, 2 wire ETP-9520 , 4-20mA, 2 wire ETP-9500-PW , Dry contact to common, 5 to 24 Vdc, or 24 Vac \pm 10% | Air Connections | Male barbed fittings for flexible 1/4" OD pneumatic tubing |
| Input Impedance | 4-20 mA input, 400 Ω minimum, 550 Ω maximum 0-10 Vdc input, >100 K Ω | Wiring Connections | Screw terminals for 14-22 AWG wire |
| PWM Input Signal | Time between pulses: 1 millisecond min, Pulse Duration: .02 to 5 Sec.; 0.59 to 2.93 sec.; 0.1 to 10 sec.; 0.1 to 25.5 sec. Accuracy: \pm 3% of span for all ranges | Output Signal | 21 - 103 IPa (3 - 15 psig) nominal, direct acting |
| Power Supply | 4-20 mA input, Loop powered 0-10 Vdc input, 24-30 Vac.Vdc, 1.0 watt max. ETP-9500-PW - Regulated 24 Vdc min, 35 Vdc max, Regulated 22-28 Vac | Linearity | \pm 1% of span |
| Air Supply | 138 kPa (20 psig) nominal, 207 kPa (30 psig) maximum. Clean, dry, oil-free air required | Hysteresis | \pm 1% of span |
| Air Consumption | 5.66 ml/s (0.012 scfm) @ 138 kPa (20 psig) supply, maximum | Adjustments | Zero and span potentiometers |
| Output Air Capacity | 141 ml/s (515 scim) maximum @ 138 kPa (20 psig) supply | Operating Temperature | 0°C - 60°C (32°F - 140°F) |
| Maximum Span/ Minimum Span | 97 kPa (14 psig) / 55kPa (8 psig) | Operating Humidity | 5 - 95% RH, non-condensing |
| Lowest Offset/Highest Offset | 7 kPa (1 psig) / 41 kPa (6 psig) | Dimensions H x W x D | 83 x 70 x 50 mm (3.25 x 2.75 x 2") PW Option: 83x165x50 mm (3.25x7x2") |

PRODUCT ORDERING INFORMATION:

| MODEL | Product Description |
|------------|----------------------|
| ETP | Pneumatic transducer |

| CODE | Input Signal |
|-------------|--|
| 9500 | Field selectable 0 - 10 Vdc or 4 - 20 mA |
| 9510 | 0 - 10 Vdc, loop-powered |
| 9520 | 4 - 20 mA, loop-powered |

| CODE | Options |
|-----------|---|
| E | Enclosure (Not available with PW option) |
| EG | Enclosure c/w 0 to 30 psi Gage (Not available with PW option) |
| PW | PWM input (9500 series only) |

Greystone Energy Systems Inc. reserves the right to make design modifications without prior notice.

ETP 9510 EG

OPTIONS:

- Pressure gauge (not mounted) **PG-100-30**, 0-30 psig
- Pneumatic air filter (not mounted) **K-335**, 0.5 micron



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RoHS
COMPLIANT



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