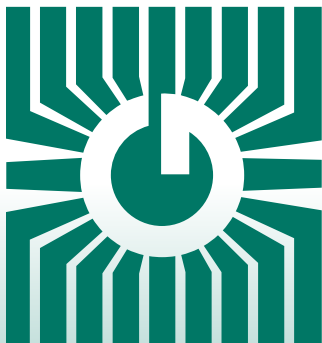
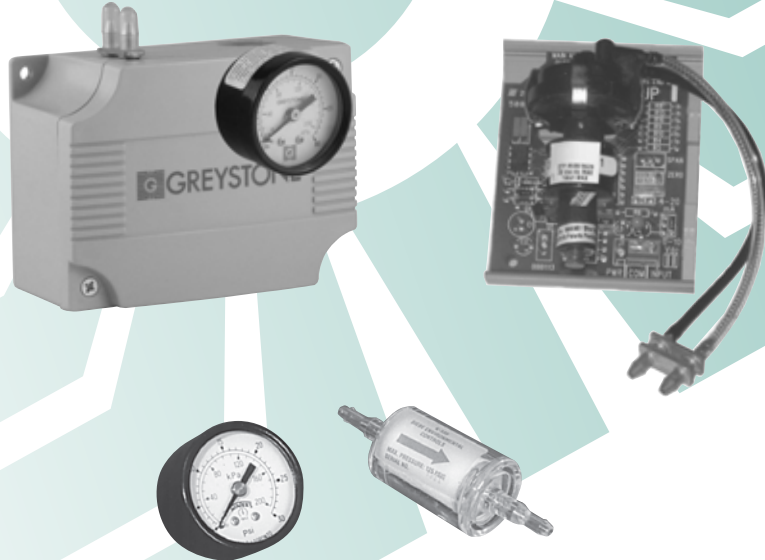


GREYSTONE ENERGY SYSTEMS INC



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 , 4-20 mA, 2 wire ETP-9520-PW , Dry contact to common, 5 to 24 Vdc or 24 Vac ±10%
Input Impedance	4-20 mA input, 400 Ω minimum, 550 Ω maximum 0-10 Vdc input, >100 KΩ
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: ±3% of span for all ranges
Power Supply	4-20 mA input, Loop powered, 2-10 Vdc input, 24-30 Vac.\Vdc, 1.0 watt max. ETP-9520-PW - Regulated 24 Vdc min, 35 Vdc max, Regulated 22-28 Vac
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
Max/Min Span	97 kPa (14 psig) / 55kPa (8 psig)
Lowest/Highest Offset	7 kPa (1 psig) / 41 kPa (6 psig)
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 lPa (3 - 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° -140°F), 5-95% RH non-condensing
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") E Option: 116 x 84 x 54 mm (4.56 x 3.32 x 2.11")

PRODUCT ORDERING INFORMATION:

MODEL	Product Description
ETP	Electronic to pneumatic transducer

CODE	Input Signal
9500	Field selectable 0 - 10 Vdc or 4 - 20 mA
9510	2 - 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 (9520 series only)

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

ETP	9510	EG
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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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