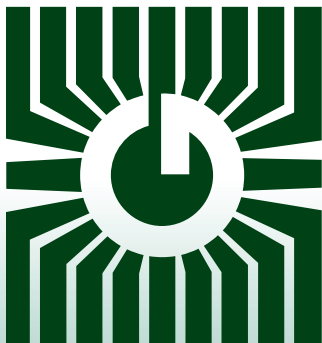


GREYSTONE ENERGY SYSTEMS INC



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 , 4-20mA, 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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