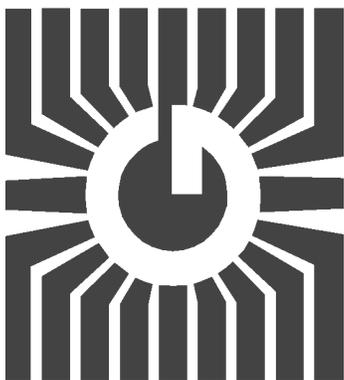


GREYSTONE

ACCURACY BY DESIGN



ELECTRONIC TO PNEUMATIC TRANSDUCERS ETP-9500 Series



Field selectable for either 4 – 20mA or 0-10 VDC. Pulse width input optional.

FEATURES:

- Direct connection to PC's 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 control 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 – 10VDC mode. The ETP-9520-PW requires a 24 VDC or 22 to 28 VAC power supply.

SPECIFICATIONS

Input Signal	ETP-9500, 4 – 20mA 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 ±10%	Air Connections	Male barbed fittings for flexible 1/4" OD pneumatic tubing
Input Impedance	4 – 20mA input, 400Ω 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: 0.02 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	Output Signal	21 – 103 kPa (3 – 15 psig) nominal, direct acting
Power Supply	4 – 20mA input, Loop powered 0 – 10 VDC input, 24 – 30 VAC/DC, 1.0 Watt maximum ETP-9500-PW - Regulated 24 VDC min, 35 VDC max; Regulated 22 to 28 VAC	Linearity	±1% of span
Air Supply	138 kPa (20 psig) nominal, 207 kPa (30 psig) maximum Clean, dry, oil-free air required.	Hysteresis	±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) / 55 kPa (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 mm x 70 mm x 50 mm (3.25" x 2.75" x 2") PW Option: 83 mm x 165 mm x 50 mm (3.25" x 7" x 2")

ORDERING:

Model	Description																
ETP	Pneumatic Transducer																
	<table border="1"> <tr> <th>CODE</th> <th>Input</th> </tr> <tr> <td>9500</td> <td>Field selectable 0-10 VDC/4-20 mA</td> </tr> <tr> <td>9510</td> <td>0-10 Vdc, loop-powered</td> </tr> <tr> <td>9520</td> <td>4-20 mA, loop-powered</td> </tr> <tr> <th>CODE</th> <th>Option</th> </tr> <tr> <td>E</td> <td>Enclosure</td> </tr> <tr> <td>EG</td> <td>Enclosure c/w 0-30 psi Gage</td> </tr> <tr> <td>PW</td> <td>PWM input (9500 Series Only)</td> </tr> </table>	CODE	Input	9500	Field selectable 0-10 VDC/4-20 mA	9510	0-10 Vdc, loop-powered	9520	4-20 mA, loop-powered	CODE	Option	E	Enclosure	EG	Enclosure c/w 0-30 psi Gage	PW	PWM input (9500 Series Only)
CODE	Input																
9500	Field selectable 0-10 VDC/4-20 mA																
9510	0-10 Vdc, loop-powered																
9520	4-20 mA, loop-powered																
CODE	Option																
E	Enclosure																
EG	Enclosure c/w 0-30 psi Gage																
PW	PWM input (9500 Series Only)																
ETP	9510	EG	Typical Model Number														

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

Example: I/P transducer, 0-10 vdc, loop powered, enclosure & gage



150 English Drive, Moncton, NB, Canada E1E 4G7 Tel.: (506) 853-3057 Fax: (506) 853-6014
e-mail: mail@greystoneenergy.com North America: 1-800-561-5611