

## PT-400 Amplified Output Pressure Transducer



The PT-400 offers high accuracy and reliability over a wide range of pressures. The small size, integrated electronics, wide operating temperature range, ATEX and IECEx approval, and durability, make the PT-400 the perfect instrument for static and dynamic pressure measurements with an amplified output signal.

### Features

- Available ranges from 0 - 40,000 psi
- Standard Outputs: 4-20 mA, 0-5 VDC, 0-10 VDC, RS-485
- High overpressure capability
- Zero and Span adjustments
- cCSAus hazardous location approved
- ATEX Approved
- IECEx Approved

### Datos fiscales:

Corporación Eco Industrial y Comercial S.A de C.V.  
Plan de San Luis # 101 Int. 801 Col. El Coecillo  
León, Gto. C.P. 37260

### Oficina de Ventas:

Cd. de México  
Cd. de Querétaro  
Nextel

Tel (55) 5510-4265  
Tel (442) 212-8075  
Tel 01 (442) 413 7630  
Tel 01 (442) 410 1565

## PT-400 Specifications



\*Overall length may vary depending on process connection.



### Performance

- Accuracy (linearity & hysteresis):  $\pm 0.25\%$  of full scale (BFSL)
- Standard Pressure Ranges: 0 - 40,000 psi
- Stability - One Year Zero Drift: 17-4 / 316L:  $< \pm 0.5\%$  FS
- Overpressure: 2x full scale
- Burst Pressure: up to 3x full scale or limit of process connection
- Frequency Response: Less than 5ms



### Connectivity

- Output: 4-20 mA (2 wire, loop-powered)  
0-5 VDC, 0-10 VDC (non-isolated 3 wire)  
Modbus/RTU (RS-485) with temp. output



### Environmental

- Protection rating: IP67
- Standard Compensated Temp.:  $-17^{\circ}$  to  $54^{\circ}\text{C}$  ( $0^{\circ}$  to  $130^{\circ}\text{F}$ )
- Storage Temp:  $-40^{\circ}$  to  $82^{\circ}\text{C}$  ( $-40^{\circ}$  to  $180^{\circ}\text{F}$ )
- Operating Temp:  $-40^{\circ}$  to  $85^{\circ}\text{C}$  ( $-40^{\circ}$  to  $185^{\circ}\text{F}$ )



### Physical

- Weight: 10 oz. (283 g) typical
- Wetted Materials: 17-4 SS, 316L SS



### Electrical

- Supply Voltage: 9-28 VDC
- Electrical Connection: Pigtail with cable or connector
- Electrical Protection: Protected against reverse polarity, surge per IEC 61000-4-5



### Certification

- CSA/cCSAus Contract #237484  
Ambient:  $-40^{\circ}$  to  $85^{\circ}\text{C}$   
Max. Working Pressure: 10,000 psi  
0-5 VDC, 0-10 VDC, 4-20mA  
- IS: Class I, Div. 2, Groups C & D; Ex nL IIB T4  
- Class I, Zone 2; AEx nL IIB T4  
4-20 mA  
- IS: Class I, Div. 1, Groups C & D; Ex ia IIB T4  
- Class I, Zone 0; AEx ia IIB T4
- ATEX  
4-20 mA  
- Ex II 1G Ex ia IIB T4 Ga
- IECEx  
4-20 mA  
- Ex ia IIB T4 Ga

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## Options

Part Number: PT-400 -      -      -      -      -      -      -      -      -      -     

A      B      C      D      E      F      G      H      I      J

### A. Operation / Output

- L1**▲ 4 - 20 mA output
- L3** 0 - 5 VDC output
- L10** 0 - 10 VDC output

#### Modbus

- L5** RS-485 (Modbus/RTU), 4-wire Pressure reading only (Approvals Pending)
- L31** RS-485 (Modbus/RTU), 4-wire Level calculations, tank volume (Approvals Pending)

### B. Common Pressure Ranges - PSI\*

- 5     50     200     1000     5000
- 15     60     300     2000     10000
- 30     100     500     3000

\*Other ranges available. Please consult factory.

### C. Units of Measure

- psi**▲     **bar**     **kPa**     **kgcm<sup>2</sup>**     **fsw**

### D. Pressure Type

- A** Absolute                                     **CG** Compound Gauge
- S**▲ Sealed (100 psi or greater)     **V** VAC
- G** Gauge (less than 1000 psi)

### E. Electrical Connection

(Mating connector sold separately)  
(For the long can include an "L" after the E option)

- E3** 4 pin bayonet PT 1H-8-4P or equiv.
- E4** 4 pin M12 micro connector.
- E5**▲ Pigtail with cable (specify cable length below)
- E6** 4 pin per DIN 43650  
(mating connector included)
- E17** 6 pin bayonet (PT02E-10-6P)
- E19** 1/2 in NPTM with cable
- E36** 1/2 in NPTM with 6 in flying leads

▲ This option is standard

### F. Electrical Cable Length

- Number represents cable length, in 5-ft increments, included on E5, E19, & E38 options.  
(ex. E5-10 equals pigtail, 10 ft cable)

### G. Process Connection

- P0**▲ 1/4 - 18 NPTM, 316L SS
- P1** 1/2 - 14 NPTM  
17-4 SS above 500 psi, 316L SS below 500 psi
- P5** 1/4 - 18 NPTF  
17-4 SS above 500 psi, 316L SS below 500 psi
- P6** 1/2 NPTF  
17-4 SS above 500 psi, 316L SS below 500 psi
- P9** H.P. SnoTriK female  
(F-250C, Autoclave female) 17-4 SS above 10K
- P30** H.P. SnoTriK male  
(M-250C, Autoclave female) 17-4 SS above 10K
- P38** 1 1/2 in. tri-clover with 3/4 in. diaphragm  
Available on ranges below 500 psi, 316L SS
- P52** 1 1/2 in. NPTM flushmount w/ 1/2in. diaphragm  
Available on ranges below 5K, 316L SS

### H. Accuracy

(1 - 10,000 psi)

- N0**▲ ±0.25%
- N1** ±0.25% with NIST certification
- N2** ±0.1% with NIST certification

(10,001 - 40,000 psi)

- N12** ±0.5%
- N13** ±0.5% with NIST certification

### I. Materials

- M1**▲ 316L SS (1 to 40,000 psi)
- M2** 17-4 SS (available on ranges > 200 psi)

### J. Temperature

- S0**▲ Standard: 0° - 130°F (-17° - 54°C)
- S1** Extended: -40° - 180°F (-40° - 82°C)
- S4** Extended: 0° - 185°F (-17° - 85°C)

#### Datos fiscales:

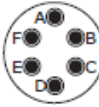
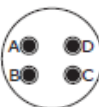

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PT-400 Pin Out Table

		4-20 mA	0-5 VDC	0-10 VDC	
6 Pin Bayonet	A	+ Excitation	+ Excitation	+ Excitation	 6 Pin Bayonet Connector
	B	- Excitation	+ Output	+ Output	
	C	N/C	- Output	- Output	
	D	N/C	- Excitation	- Excitation	
	E	N/C	N/C	N/C	
	F	N/C	N/C	N/C	
4 Pin Bayonet	A	+ Excitation	+ Excitation	+ Excitation	 4 Pin Bayonet Connector
	B	- Excitation	+ Output	+ Output	
	C	N/C	- Output	- Output	
	D	N/C	- Excitation	- Excitation	
4 Pin M12	1	+ Excitation	+ Excitation	+ Excitation	 4 Pin M12 Micro Connector
	2	N/C	+ Output	+ Output	
	3	N/C	- Output	- Output	
	4	- Excitation	- Excitation	- Excitation	
Pigtail	Red	+ Excitation	+ Excitation	+ Excitation	
	Gm	N/C	+ Output	+ Output	
	Wht	N/C	- Output	- Output	
	Blk	- Excitation	- Excitation	- Excitation	

## PT-400 Accessories

Please order separately, by part number.

Description	Part Number
4 pin bayonet mating connector (E3) Connector Only	509010
4 pin bayonet mating connector (E3) with 2 ft cable (L1, L3, L10 only)	509010-1002
4 pin bayonet mating connector (E3) with 5 ft cable (L1, L3, L10 only)	509010-1005
4 pin bayonet mating connector (E3) with 10 ft cable (L1, L3, L10 only)	509010-1010
4 pin bayonet mating connector (E3) with 25 ft cable (L1 only)	509010-1025
4 pin bayonet mating connector (E3) with 50 ft cable (L1 only)	509010-1050
6 pin bayonet mating connector (E17) Connector only	509120
6 pin bayonet mating connector (E17) with 2 ft cable	509120-1002
6 pin bayonet mating connector (E17) with 10 ft cable	509120-1010
6 pin bayonet mating connector (E17) with 25 ft cable	509120-1025
6 pin bayonet mating connector (E17) with 50 ft cable	509120-1050
4 pin female micro connector (M12) mating connector (E4) Field wireable	509087
4 pin female micro connector (M12) mating connector (E4) with 2 m molded cable	135407-0002
4 pin female micro connector (M12) mating connector (E4) with 5 m molded cable	135407-0005

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