

PT-400 Specifications and Options

Specifications

Performance

- Accuracy (linearity & hysteresis):
± 0.25% of full scale (BFSL)
- Standard Pressure Ranges: 0 – 40,000 psi
- Stability – One Year Zero Drift:
17-4 / 316L: <± 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

- Standard Compensation Temp: 0° to 130° F (-17° to 54° C)
- Storage Temp: -40° to 180° F (-40° to 82° C)
- Operating Temp: -40° to 185° F (-40° to 82° C)

Physical

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

Electrical:

- Supply Voltage: 9-28 VDC
- Electrical Connection: Pigtail w/cable or connector
- Electrical Protection: Protection against reverse polarity, surge
Per IEC 61000-4-5

Certification

- CSA/cCSAus
Ambient: -40° to 85° C
0-5 VDC, 0-10 VDC, 4-20mA
- IS: Class 1, Div. 2, Groups C & D; EX nL IIB T4
- Class 1, Zone 0; AEx ia IIB T4
- ATEX
4-20 mA
- Ex ia IIB T4 Ga

Options

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)

COMMON PRESSURE RANGES – PSI

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

UNITS OF MEASURE

- psi
- bar
- kPa
- kg/cm²
- fsw

PRESSURE TYPE

- Absolute
- Sealed (100 psi or greater)
- Gauge (less than 1000 psi)
- Compound Gauge
- VAC

ELECTRICAL CONNECTION

- 4 pin bayonet PT 1H-8-4P or equivalent
- 4 pin M12 micro connector.
- Pigtail w/cable (specify cable length below)
- 4 pin per DIN 43650, short can
(mating connector included)
- 6 pin bayonet (PT02E-10-6P) short can
- ½ in NPTM w/ 6 in flying leads, short can
- ½ in NPTM w/ cable, short can
- ½ in NPTM w/ 6 in flying leads, long can
- ½ in NPTM w/ cable, long can
- 4 pin per DIN 43650 w/ solderless screws, long can
(mating connector included)

ELECTRICAL CABLE LENGTH

- Specified by customer, in 5-ft. increments (included on some options)

PROCESS CONNECTION

- ¼-18 NPTM, 316L SS
- ½-14 NPTM
17-4 SS above 500 psi, 316L SS below 500 psi
- ¼-18 NPTF
17-4 SS above 500 psi, 316L SS below 500 psi
- ½ NPTF
17-4 SS above 500 psi, 316L SS below 500 psi
- H.P. SnoTriK Female
(F-250C, Autoclave female) 17-4 SS above 10K
- H.P. SnoTriK male
(M-250C, Autoclave female) 17-4 SS above 10K
- 1 ½ in. tri-clover with ¾ in. diaphragm
Available on ranges below 500 psi, 316L SS
- 1 ½ in. NPTM flushmount with ½ in. diaphragm
Available on ranges below 5K, 316L SS

Accuracy

- ±0.25%
- ±0.25% with NIST certification
- ±0.1% with NIST certification (select ranges)

Materials

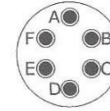
- 316L SS (1 to 40,000 psi)
- 17-4 SS (available on ranges > 200 psi)

Temperature

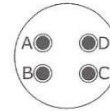
- Standard: 0° - 130° F (-17° - 54° C)
- Extended: -40° - 180° F (-40° - 82° C)
- Extended: 0° - 185° F (-17° - 85° C)

PT-400 Pin Out Table

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



6 Pin Bayonet Connector



4 Pin Bayonet Connector



4 Pin M12 Micro Connector

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