

PT-500 Specifications and Options

Specifications

Performance

- Accuracy (linearity, hysteresis, and repeatability):
Up to 0.10% of span (B.F.S.L.)
- 1 year stability: = 0.75% of span
- Temp Compensation Range: 32° - 122° F (0° - 50° C)
- Temp Effects on Zero & Span:

Connectivity

- Output:
 - 4-20 mA
 - 0-5V
 - mV/V
 - Modbus/ RTU (RS-485) with temp. output

Environmental

- Maximum Depth:
Submersible up to 462.2 ft. (300 psig)

Certification

- CSA Intrinsically Safe: (4-20 mA only)
Class 1, Division 1 ; Groups C & D
Ex ia IIB T4
Class 1, Zone 0, AEx ia IIB T4
Ambient: -40 - 85° C
- U.S. Patent No. 7,787,330

Electrical

- Supply Voltage: 10-28 VDC
- Electrical Connection:
 - Vented watertight cable with free ends
 - Non-vented cable
 - Up to 200 lbs tensile strength
- Electrical Protection:
Built in lightning and surge protection
Protected against reverse polarity, surge per IEC 61000-4-5

Physical

- Housing: 316L SS
- Cable: Urethane/ PVC/ Hytrel
- Protective Cone: Delrin
- Overmolded Cable
- Removable or Permanent Anti-snag Cage

Options

CABLE TYPE

- Urethane – Blue (with vent tube)
- PVC – Black (no vent tube – sealed unit)
- Hytrel – Black (with vent tube)
- PVC – Black (with vent tube)

PRESSURE RANGE

- Customer specify range
(Max water Depth 462.2 ft. (140.9 m), 300 psig)

STANDARD UNITS OF MEASURE

- PSI
- FTH20
- INWC
- INH20
- MMH20
- FWC

OUTPUT

- 4-20 mA, 2 wire
- 0-5V, 3 wire (approvals pending)
- mV/V, 4 wire (approvals pending)

MODBUS

- RS-485 (Modbus/ RTU), 4 wire pressure reading only (approvals pending)
- RS-485 (Modbus/ RTU), 4-wire level calculations, tank volume (approvals pending)

OVERMOLD

- No overmold for 1/2 in. NPTM FITTING FOR CONDUIT
- Pigtail with overmolded cable

PROCESS CONNECTION

- 1/2" NPTM with removable plastic nose cone
- 1/4" NPTF
- Cage (anti-snag 1 piece fitting)
- 1-1/2" tri-clover with 3/4" diaphragm
- Cage (includes P38 fitting)

CABLE LENGTH

- Customer specification of cable length

ACCURACY

- ±0.25%
- ±0.25% w/ NIST certification
- ±0.1% w/ NIST certification