

● Features:

- * Utilizes a pressure sensor packaged in a SST316L housing. Pressure is transferred from a stainless steel diaphragm to the sensor.
- * A broad compensated temperature range of -20 to 85°C and excellent temperature compensation make this transducer/transmitter very stable fluctuating temperatures.
- * 1 year warranty

● Applications:

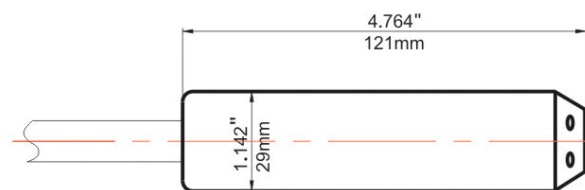
- * Designed for liquid level measurement and processing and others.
- * A broad compensated temperature range of -20 to 85°C and excellent temperature compensation make this transducer/transmitter very stable fluctuating temperatures.



| Specifications | |
|---------------------|---|
| Range | 1mH ₂ O~50mH ₂ O |
| Output | 4 mA (Zero)~20 mA (Full scales) For 2-wire of pressure transmitter |
| Total Accuracy | ≤ 1.0%FS, 0.5%FS, 0.25%FS, 0.1%FS (the compensated temperature range) |
| Long Term Stability | will repeat within 0.5%FS, 0.25%FS, 0.1%FS of original calibration curve for one year |
| Safe Pressure | 150% full scale |
| Proof Pressure | 250% full scale |
| Cycling life | In excess of 10 ⁶ cycles at full scale pressure |

● PTL Series Product Code

| Range | Over-pressure | Burst Pressure | Product Code |
|-----------------------|-----------------------|-----------------------|--------------|
| 0-1mH ₂ O | 1.5mH ₂ O | 1.5mH ₂ O | TMP21 |
| 0-2mH ₂ O | 3mH ₂ O | 3mH ₂ O | TMP22 |
| 0-3mH ₂ O | 4.5mH ₂ O | 4.5mH ₂ O | TMP23 |
| 0-4mH ₂ O | 6mH ₂ O | 6mH ₂ O | TMP24 |
| 0-5mH ₂ O | 7.5mH ₂ O | 7.5mH ₂ O | TMP25 |
| 0-6mH ₂ O | 9mH ₂ O | 9mH ₂ O | TMP26 |
| 0-7mH ₂ O | 10.5mH ₂ O | 10.5mH ₂ O | TMP27 |
| 0-8mH ₂ O | 12mH ₂ O | 12mH ₂ O | TMP28 |
| 0-9mH ₂ O | 12mH ₂ O | 12mH ₂ O | TMP29 |
| 0-10mH ₂ O | 15mH ₂ O | 15mH ₂ O | TMP210 |
| 0-20mH ₂ O | 30mH ₂ O | 30mH ₂ O | TMP211 |
| 0-30mH ₂ O | 45mH ₂ O | 45mH ₂ O | TMP212 |
| 0-50mH ₂ O | 75mH ₂ O | 75mH ₂ O | TMP213 |



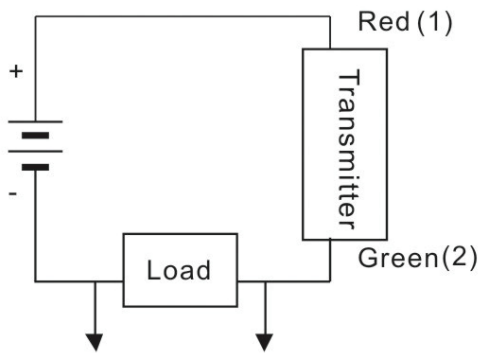
● Environmental:

- * Compensated Temperature Range: -20 ~ 75°C
- * Operating Temperature Rang: -30 ~ 85°C
- * Storage Temperature Range: -40 ~ 100°C
- * Vibration: 15 grms 10-2000Hz(MIL-STD-202 M204 Cond.B)
- * Shock: 50g's, 11ms, (MIL-STD-202 M213 Cond.G)

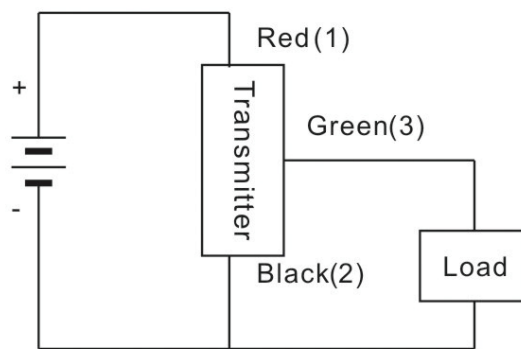
● Electrical Connection:

- * 4-20mA(2-wire): Red(1#) - power supply(E+),
Green (2#) - signal output (Iout)
- * 0/4 - 10/20mA(3 wire): Red(1#) - power supply(E+),
Black(2#) - power supply(E-),
Green(3#) - signal output(Iout)
- * 0/1 - 5/10V(3 wire): Red(1#) - power supply(E+),
Black(2#) - power supply(E-),
Green(3#) - signal output(Vout)

● Wiring Schematic:



● 2-wire Transmitter



● 3-wire Transmitter

● Type Selections:

| Model | Housing Body Size | Output | Level Range | Electrical Connection | Additional Function |
|-------|-------------------|-------------------------------|--|--|---|
| PTL | 1 – 27125 | 1 – 420mA (2 wire) | xx - Rated pressure measurement value unit – may be select: mH ₂ O, KPa | P1 - 5 meter shielded cable P2 – 2088 alloy enclosure P3 – BP2-1 alloy enclosure | A1 – 1.0%FS |
| | 2 – 27125 | 2 – 420mA (3 wire) | | | A2 – 0.5%FS |
| | (with 6 face) | 3 – 05V | | | A3 – 0.25%FS |
| | | 4 – 15V | | | A4 – 0.1%FS |
| | 9 – other | 5 – 0.54.5V | | | V1 – 24VDC |
| | | 6 – 010V | | | V2 – 12VDC |
| | | 7 – switch out | | | V3 – 5VDC |
| | | 8 – switch & voltage out | | | V4 – 12VDC |
| | | 9 – customer special requests | | | D1 – LED display D2 – LCD display D3 – index display D4 – 0100% display GE – self-safety iaIICT4 GF – isolation dIIBT4 |

● Ordering Example:

- * PTL 11-2.5mH₂O-P1A2V1 -- PTL level transmitter: level range is 0-2.5mH₂O, body size is 27125, output is 4-20mA(2 wire), electrical connection is shield cable wire, accuracy is 0.5%FS, the power supply is 24VDC.
- * PTL 21-15mH₂O-P2A2V2 -- PTL level transmitter: level range is 0-15mH₂O, body size is 27125 (with 6 face), output is 4-20mA (2 wire), electrical connection is 2088 alloy enclosure, accuracy is 0.5%FS, the power supply is 24VDC.