UNIJIN® PRESSURE TRANSMITTER

Model : UPT-110

UPT-110 pressure transmitter has been designed as an advanced device for measuring pressure of gases and liquids in industrial applications. It is extremely versatile and suitable for measuring static pressure. The built-in ceramic measuring cell is highly corrosion resistant, stable and has an excellent price / performance ratio. Thanks to their high natural frequency and the rugged construction, the UPT-110 transmitter withstands high shock and vibration.

The transmitters are available as absolute and relative pressure types with either 2-wire current or 3-wire voltage output. The pressure to be measured acts without transmitting liquid fill on a stable, corrosion resistant ceramic measuring cell. Piezoresistive resistors are attached to the cell and connected in a Wheatstone bridge configuration. The output signal of this bridge is converted into a standardized current or voltage output signal.

Typical Applications: Refrigeration, pumps, process control, pneumatics, flow, agriculture, fuel cells, hydraulics, spraying systems, compressor, robotics and hydrogen storage.

Standard Specification

Superb Accuracy
± 0.5%

Robust Package
All laser-welded stainless steel design for optimal media isolation

Working Temperature
-10 ~ 80°C / ~200°C (option)

Supply Voltage
8...32 VCD

Output Signal
4...20mA ; 0...10 VDC ; 1...5 VDC

Stability
≤ 0.2% FS / Year

Sensitive
≤ - 0.2% FS / Year

Pressure Transmitter Ordering Information

Model	UPT - 110
Pressure Type	Absolute / Gauge
Output Option	4 ~ 20mA
Output Connector	Mini Din / Extended
Port Configuration	1/4" PT. 1/4" PF. 1/4" NPT .1/2" NPT
Pressure Range	-1, 1, 2, 4, 6, 10, 16, 25, 60, 100, 160 250 & 350 bar

Instruction Menu

The product produced through strict testing process. It also meets the specification as shown on catalog. Under normal and correct using circumstance, the product has a warranty for one year.

The product cannot be used under below circumstances:

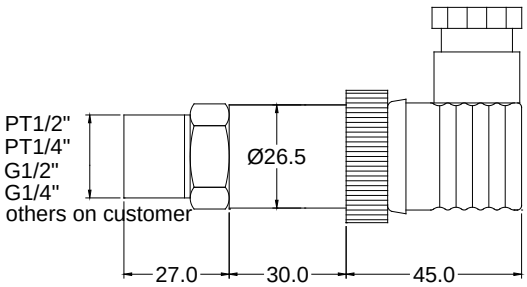
1. The outdoor environment
2. High electromagnetic interference environment
3. Humidity over 90% RH or temperature above 65°C environment
4. Water environment
5. High corrosion or polluted environment

⚠ Caution

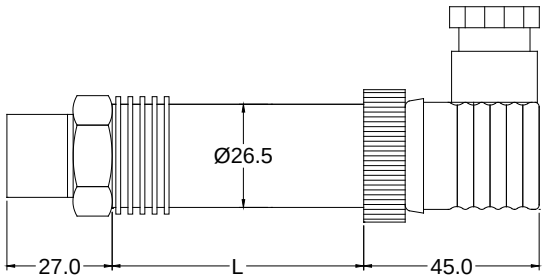
1. Please maintain balance for the pressure in the tube and atmosphere pressure.
2. If install in outdoor environment, the device should provide a protection for over pressure.
3. The power (V+) and output (OUT+) cannot be in wrong connection, it will lead to short circuit and cause the damage to sensor output.

Basic Dimensions (mm)

Normal TEMP.

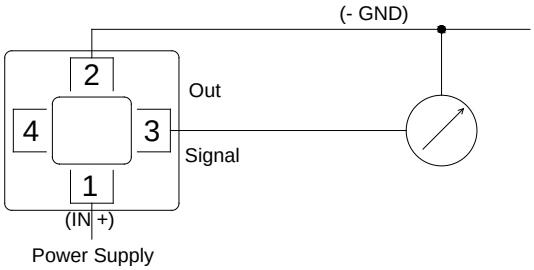


High TEMP. (Option)



Wiring Diagram

1-5V / 1-10V / 0-10V (3 wire)



4-20mA (2 wire)