PST 1015

PRESENSE

Special Features

- Thermocouples, RTD, resistance or voltage
- Configuration is made in seconds with the user friendly Windows software
- High accuracy
- Build-in cold junction compensation
- Temperature linear output
- Connection terminals also accessible from the outside
- Available with screw-in temperature probe

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Description

These temperature transmitters are designed for universal use in plant and machine building, also in the process industry. They offer **high accuracy** and **excellent protection** against electromagnetic influences (EMI). **PST1015** is a head-mount temperature transmitter with a single input.

The single input accepts thermocouples, RTD, resistance or voltage source. All inputs are linearized and converted into an industrial standard **4-20 mA** output for transmission to your system.

APPLICATIONS

- Process industry
- Machine building and plant construction

Specifications

Input Signals		Response Time	
RTD | Thermocouple | Resistance | mV		≤1s	
Output Signals		**Operating Temperature**	
4-20mA | 1-5V (Optional)		-40 ... +85 ºC	
Digital Communication		**Vib? Sho?**	
Hart protocol		4g^2, 150Hz	
Accuracy		**Cold Junction Compensation**	
≤0.1 %FS		Built-in	
Power Supply		**Configuration**	
12−40 VDC		PAD or PC	

Input of The Temperature Transmitter

Input RTD	Max. configurable measuring range (MR)	Min. measuring span (MS)	Wiring
PT100	-200 ... +850 °C (-328 ... +1,562 °F)	10 K	3-Wire
Cu50	-50 ... +150 °C (-58 ... +302 °F)	10 K	3-Wire
Input Thermocouples	**Max. configurable measuring range (MR)**	**Min. measuring span (MS)**	**Wiring**
J	-100 ... +1200 °C (-328 ... +1,562 °F)	50 K	2-Wire
K	-180 ... +1372 °C (-58 ... +302 °F)	50 K	2-Wire
N	-180 ... +1300 °C (-58 ... +302 °F)	50 K	2-Wire
R	-50 ... +1760 °C (-58 ... +302 °F)	500 K	2-Wire
B	+400 ... +1820 °C (-58 ... +302 °F)	500 K	2-Wire
E	-100 ... +1000 °C (-58 ... +302 °F)	50 K	2-Wire
S	-500 ... +1760 °C (-58 ... +302 °F)	500 K	2-Wire
T	-200 ... +400 °C (-58 ... +302 °F)	50 K	2-Wire
Input Resistance	**Max. configurable measuring range (MR)**	**Min. measuring span (MS)**	**Wiring**
Resistance	0 ... 4500 Ω	500 K	2-Wire

Dimensions [mm]
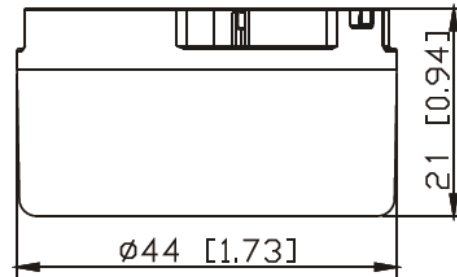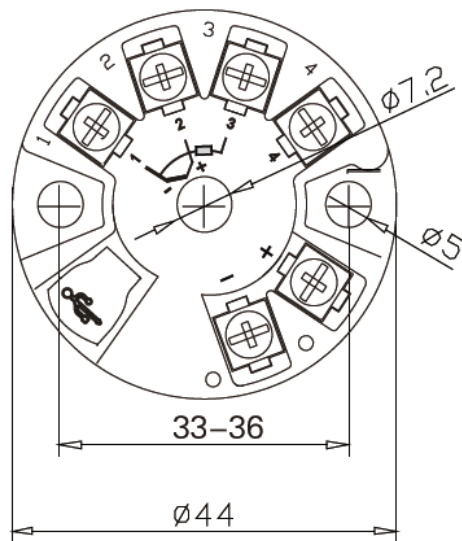
Unit: mm (approx.)

Designation of Connection Terminals
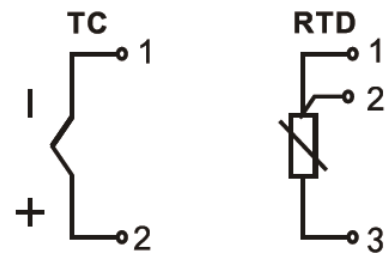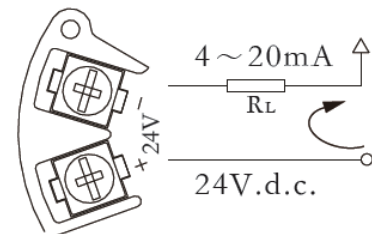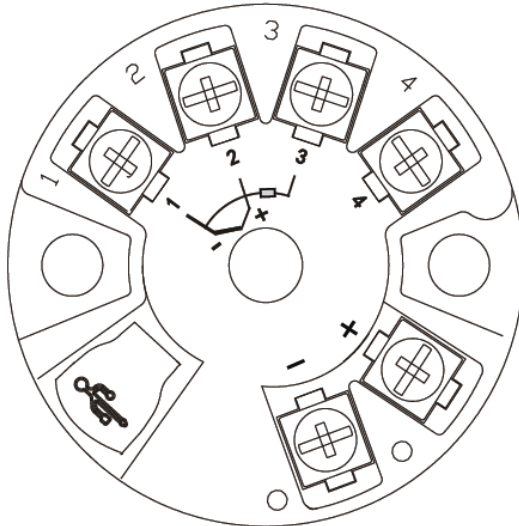

Note:

1. When mounting on a sensor head, don't overtighten the screws. Take necessary measure to avoid corrosion or damage of cables and wires.

2. RTD (platinum resistance) input: three wire resistance value must be equal, each wire resistance is no more than 10 Ω.

Programming Steps

1. Install the driver.
2. Connect the transmitter to PC, then open the software.
3. Choose the sensor type and temperature unit.
4. Set the temperature range accordingly.
5. Click ok or amend if need modify and then finish.
6. Other parameters are default and no need to set normally.
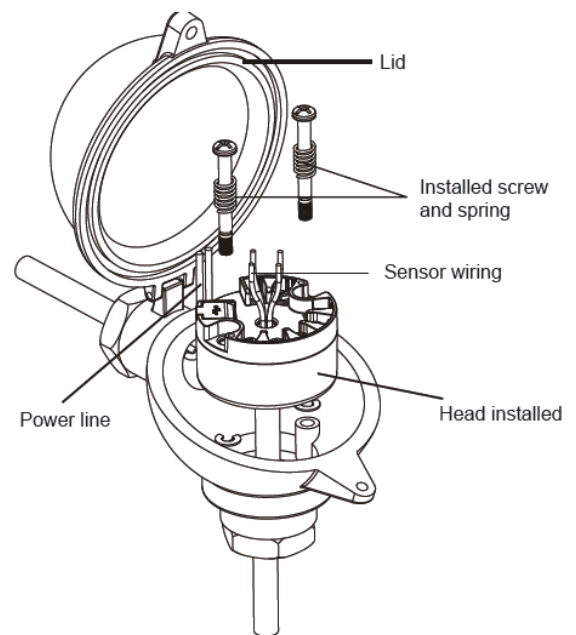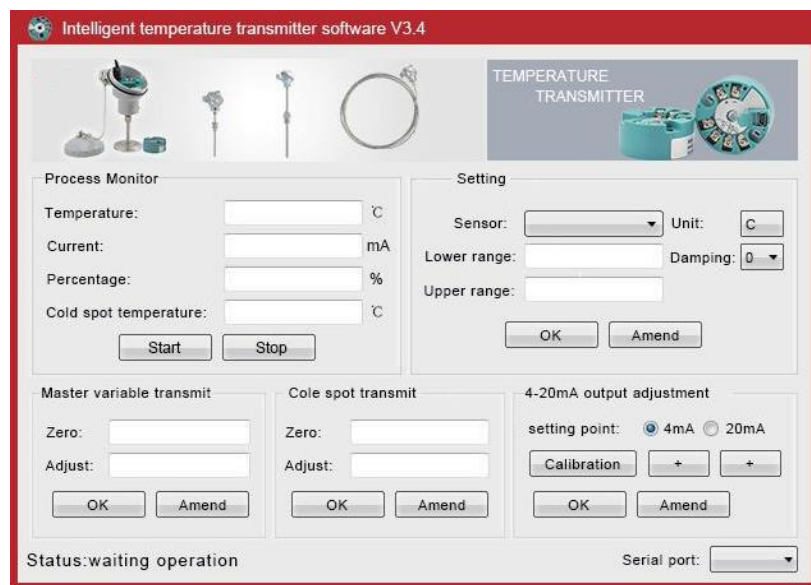
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✓ Fully Configured in China   ✓ Support   ✓ Reliable Product   ✓ Up To Dated