

*Digital temperature transmitter*  
*Head-mount version*  
*Model PST 1015*



### Applications

- Process industry
- Machine building and plant construction

### Special Features

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



### Description

The PST 1015 is designed for universal use in plant and machine building, and also in the process industry. Moreover, it is able to measure and linearize the standard thermocouples with internal cold junction compensation. The transmitter PST 1015 is able to execute many functions such as: measure and linearization of the temperature characteristic of RTDs, and conversion of a linear resistance variation. The measured values are converted in a 4 to 20 mA current signal. The device guarantees high accuracy and performances stability both in time and in temperature.

The PST 1015 can be parameterized very easily, quickly, and with a clear overview. The programming of the device is made by a Personal Computer using the software V3.6 and the cable V8. With the V3.6 programming assistant, it is possible to configure the transmitter to interface it with the most used sensors. It is possible to set the minimum and maximum values of input and output ranges in any point of the scale, keeping the minimum span shown here in this datasheet.

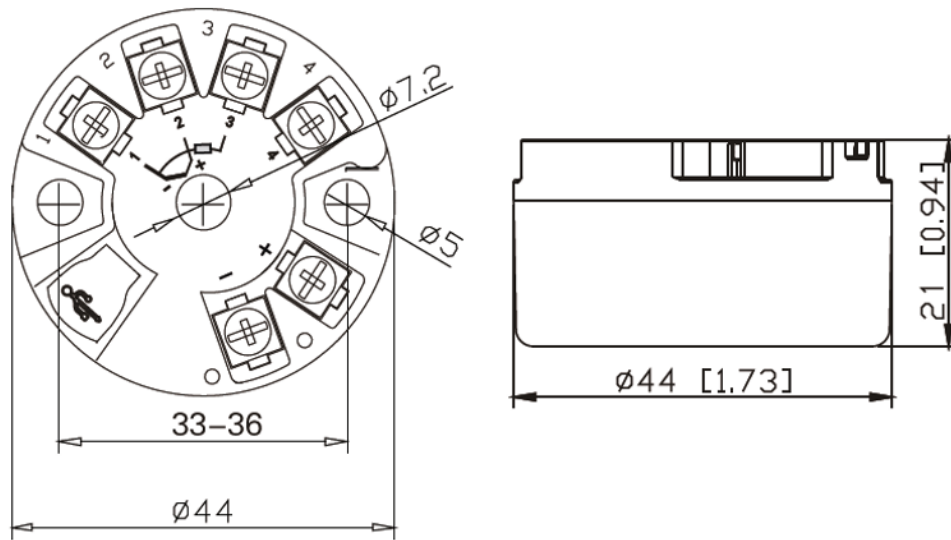
## Specifications

Technical Specifications	
Accuracy	$\leq \pm 0.1 \%F.S.$
Power Supply	12 ... 40 VDC
Output Signal	4 ... 20 mA
Digital Communication	HART Protocol
Response Time	$\leq 1$ s
Operating Temperature	-40 ... +80 °C
Vibration Resistance	4g / 2 ... 150Hz
Cold Junction Compensation	Built-in
Cold-junction compensation temperature scope	-20 ... +60 °C
Configuration	PAD or PC

Temperature transmitter input					
	Sensor Type	Max. configurable measuring range	Min. measuring span	wiring	Accuracy
RTD	PT100	-200 ... +850 °C (-328 ... +1,562 °F)	20 K	3-wire	$\leq \pm 0.1 \%F.s.$
	Cu50	-50 ... +150 °C (-58 ... +302 °F)	20 K	3-wire	
Thermocouple	Type B	+100 ... +1820 °C (+212 ... +1,562 °F)	500 K	2-wire	
	Type E	-100 ... +1000 °C (-148 ... +1,832 °F)	50 K	2-wire	
	Type J	-100 ... +1200 °C (-148 ... +2,192 °F)	50 K	2-wire	
	Type K	-180 ... +1372 °C (-292 ... +2,501 °F)	50 K	2-wire	
	Type N	-180 ... +1300 °C (-292 ... +2,372 °F)	50 K	2-wire	
	Type R	-180 ... +1300 °C (-292 ... +2,372 °F)	500 K	2-wire	
	Type S	-50 ... +1768°C (-58 ... +3,214 °F)	500 K	2-wire	
	Type T	-200 ... +400 °C (-328 ... +752 °F)	50 K	2-wire	

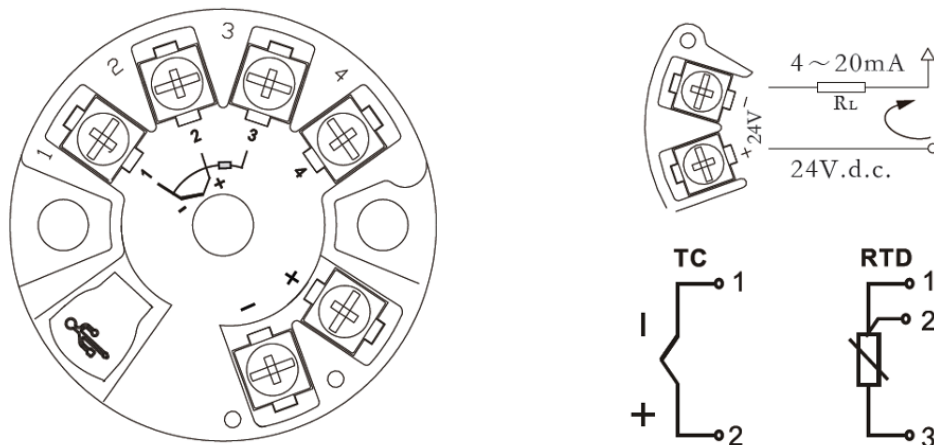
Case	
Material	ABS plastic
Ingress Protection	IP 65
Weight	Approx. 36 gr

## Dimensions in mm [approx. in]



- ❖ The dimension of PST 1015 matches the form B DIN connection heads.

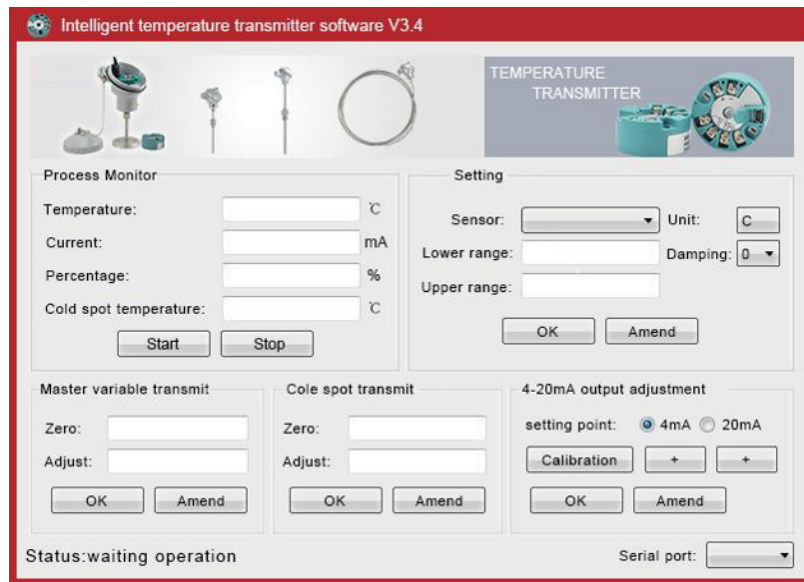
## Designation of connection terminals



- ❖ When mounting on a sensor head, don't overtighten the screws. Take necessary measure to avoid corrosion or damage of cables and wires.
- ❖ RTD (platinum resistance) input: three wire resistance value must be equal; each wire resistance is no more than 10  $\Omega$ .

## Configuration 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.



## Accessories

Presesne Configuration software: Free download

Model	Version
Programming unit Model V8	<ul style="list-style-type: none"><li>• Simple operation</li><li>• Compact design</li><li>• No further voltage supply is needed for either the programming unit or for the transmitter</li></ul>