



Temperature Transmitter

Datasheet

SUP-ST500

SUP-ST500 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 in to an industrial standard 4 to 20 mA output for transmission to your system.SUP-ST500is the choice for your monitoring applications.

FEATURES

■ Highlights

- Can convert all inputs to 4-20 mA
- Input: thermocouples, RTD, resistance or voltage
- Configuration directly via PDA or PC
- Built-in Cold Junction Compensation
- Available with screw-in temperature probe



TECHNICAL DATA

■ Specifications

Accuracy	≤0.1%FS
Power supply	12-40V
Signal input	RTD TC resistance mV
Signal output	4-20mA 1-5V(customized)
Digital communication	Hart protocol
Response time	≤1s
Working temperature	-40-85
Ingress protection	4g^2-150Hz
Cold Junction Compensation	Build-in
Configuration	PAD or PC

■ *RTD temperature probes*

Description	Measuring range °C		Minimum measuring range	Connection type
PT100	-200	850	10K	Three-wire
Cu50	-50	150	10K	Three-wire

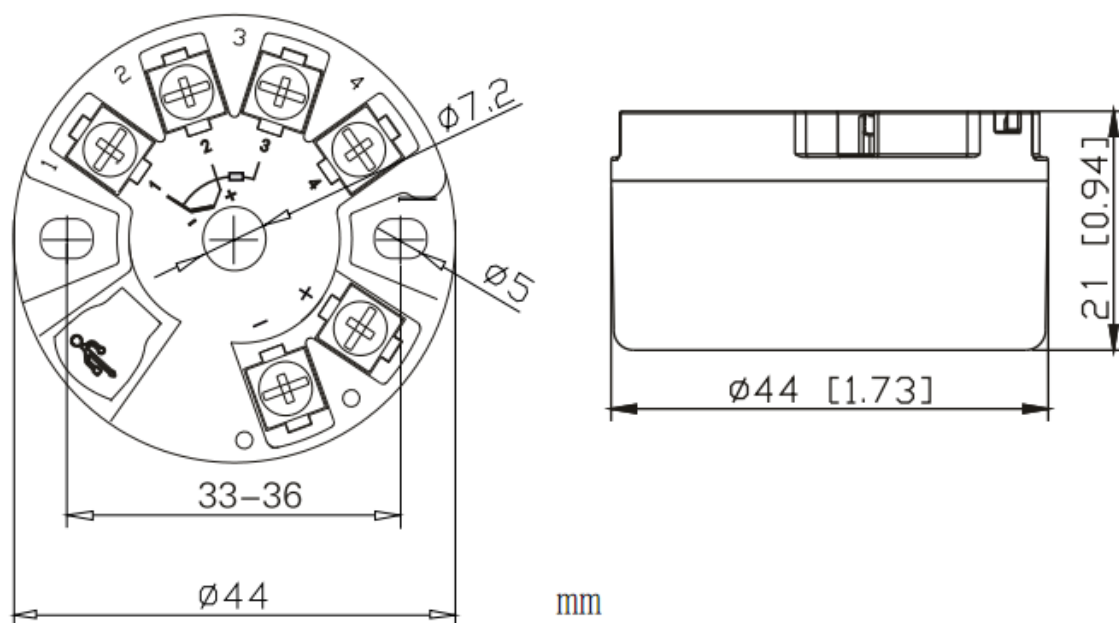
■ *Thermocouples*

Description	Measuring range °C		Connection type	Minimum measuring range
B	400	1820	Two-wire	500K
E	-100	1000	Two-wire	50K
J	-100	1200	Two-wire	50K
K	-180	1372	Two-wire	50K
N	-180	1300	Two-wire	50K
R	-50	1760	Two-wire	500K
S	-500	1760	Two-wire	500K
T	-200	400	Two-wire	50K

■ *RTD temperature probes*

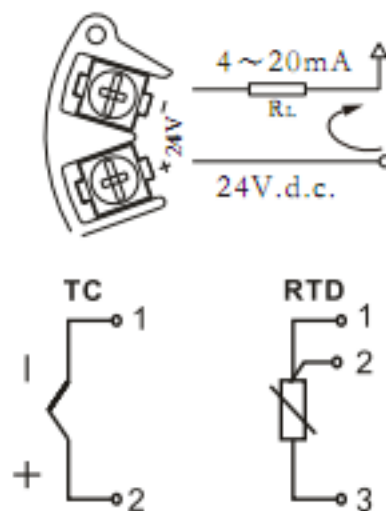
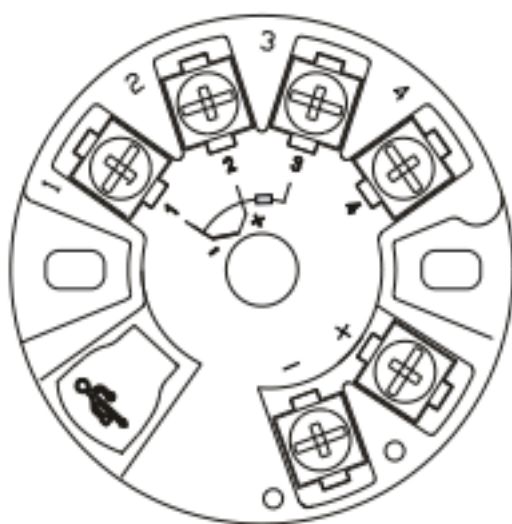
Description	Measuring range Ω		Minimum measuring range	Connection type
Resistance transmitter	0	4500	500K	Two-wire

Block Diagram



Wiring

■ **Note:** When mounting on a sensor head, do not overtighten the screws.
Take necessary measure to avoid corrosion or damage of cables and wires.



CONFIGURATION INTERFACE

■ Function

- Install the driver
- Connect the transmitter with PC, open the software
- Choose the sensor type and temperature unit
- Set the temperature range accordingly
- Click ok or amend if need modify and then finish
- Other parameters are default and no need to set normally

■ Fenster

Intelligent temperature transmitter software V3.4

Supmea

TEMPERATURE TRANSMITTER

Process Monitor

Temperature: °C

Current: mA

Percentage: %

Cold spot temperature: °C

Setting

Sensor: Unit:

Lower range: Damping:

Upper range:

Master variable transmit

Zero:

Adjust:

Cole spot transmit

Zero:

Adjust:

4-20mA output adjustment

setting point: ☒ 4mA ☐ 20mA

Status: waiting operation

Serial port:



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