

TS-I-R Room temperature transmitter

Features

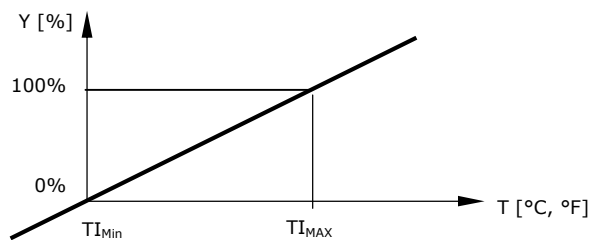
- Indoor temperature measurement.
- Simple and secure installation
- Wide range of temperature probes
- 4...20mA measuring signals
- Compact size and modern design

Applications

- Indoor air temperature measurement for comfort control
- Frost protection sensor

Temperature Transmitter

The room temperature transmitter measures the temperature by the use of a PT1000 sensing element. The transmitter analog output may be be 0-10V or 4-20mA. And the transmitter include a noise filter. the power supply is large range DC 18V---DC 30V. Standard temperature measurement range is 0...50 °C. linearity Signal output:



Ordering

Ordering number: TS-I-R

-I indicates the transmitter signal out is 4-20V.

For example: TS-U-R

The duct temperature transmitter signal out is 4 – 20mA, range is 0 - 50°C.

Installation

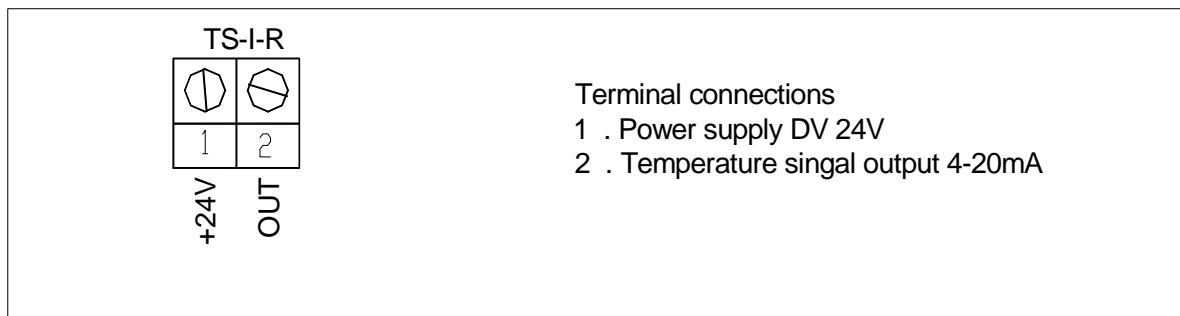
Mount the temperature sensor on a flat interior wall of the room to be controlled. Do avoid obstructions such as shelves, curtains and recesses. Do not place near heat sources, draft channels. Do not expose to direct sunlight.

- When installing the unit, fix the base plate first, connect the electrical connections then hook on the cover and secure it.
- The end of the conduit at the sensor must be sealed to prevent false measurements due to draughts through the conduit.
- Connect the wires according to the wiring diagram to the measuring circuit in the cover:
 - If the transmitter signal out is 0-10V, it's need three terminal connections, DC24V, Ground and signal out.
 - If the transmitter signal out is 4-20mA, it's need two terminal connections, DC24V, Ground and signal out.
 - The connection signal cable should be shield wires.

Technical Specification

Power supply	Option voltage	DC 24V
	Power Consumption	Max 2 VA
Signal outputs	-I type	4 – 20mA
	accuracy	0.5°C
	Temperature range	0-----50°C
Sensing elements	Platinum-Film: Range Accuracy	PT, 0.3851ohm/k -200----500°C ±0.3k
Connection	Connection Terminals	2.5 mm ²
Environment	Operation Climatic Conditions Temperature Humidity	To IEC 721-3-3 class 3 K5 -40...70°C <95% r.h.
	Transport & Storage Climatic Conditions Temperature Humidity Mechanical Conditions	To IEC 721-3-2 and IEC 721-3-1 class 3 K3 and class 1 K3 -40...80°C <95% r.h. class 2M2
Standards	CE conform according to EMC Standard 89/336/EEC EMEI Standard 73/23/EEC	EN 61 000-6-1/ EN 61 000-6-3
	Automatic electrical controls for household and similar use	EN 60 730 –1
	Special requirement on temperature dependent controls	EN 60 730 – 2 - 9
	Pollution Class	Normal acc. To EN 60 730,RoHS compliant
	Degree of Protection	IP56 to EN 60 529
	Safety Class	III (IEC 60536)
Housing Materials	Cover & Mounting Plate	Fire proof ABS plastic
General	Dimensions [mm]	Cover: 42 x 112 x 88 (H x W x D)
	Weight (including package)	135g

Wire diagram



dimension [mm]

