

Outside Temperature Sensor

For measuring temperature in outdoor areas, in cold stores, greenhouses, production plants and warehouses. NEMA 4X / IP65 rated enclosure.


Type Overview

Type	Output Signal Passive Temperature
01UT-1A	PT100
01UT-1B	PT1000
01UT-1C	Ni1000
01UT-1D	Ni1000TK5000
01UT-1L	NTC10k (10k2)

Technical Data

Electrical data	Electrical connection	Removable spring loaded terminal block max. 2.5 mm ²
	Cable entry	Cable gland PG11 Ø6...10 mm, with strain relief Ø6...8 mm
Functional data	Output signal passive temperature	PT100 PT1000 Ni1000 Ni1000TK5000 NTC10k (10k2)
	Media	Air
Measuring data	Measured values	Temperature
	Measuring range temperature	-35...50 °C [-30...120 °F]
	Accuracy temperature passive	Passive Sensors depending on used type PT.. : Class B, ±0.3 °C @ 0 °C [±0.5 °F @ 32 °F] Ni.. : ±0.4 °C @ 0 °C [±0.7 °F @ 32 °F] NTC.. : ±0.2 °C @ 25 °C [±0.3 °F @ 77 °F]
Materials	Cable gland	PA6, white
	Mounting plate	Lexan, silvergray RAL7001
	Housing	Cover: Lexan, white Bottom: Lexan, white Seal: 0467 NBR70, black

Safety data	Ambient humidity	85% r.H., non-condensing
	Ambient temperature	-35...50 °C [-30...120 °F]
	Medium temperature	-35...50 °C [-30...120 °F]
	Housing surface temperature	Max. 90 °C [195 °F]
	Protection class IEC/EN	III Safety Extra-Low Voltage (SELV)
	Protection class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1:02/-2-9, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP65, UL Enclosure Type 4X
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.090 lbs

Safety notes


The installation and assembly of electrical equipment should only be performed by authorized personnel.

This device has been designed for use in stationary heating, ventilation and air conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten human, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

Remarks
General remarks concerning sensors

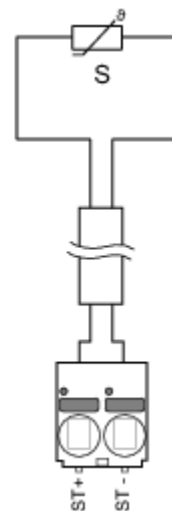
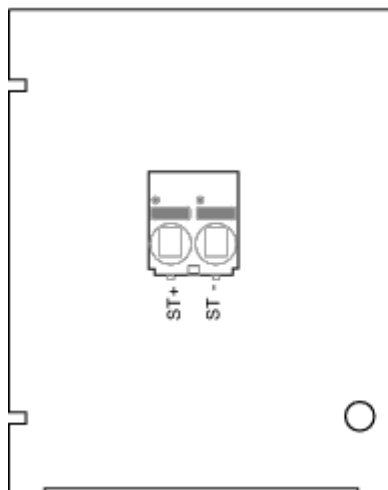
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy, so it should not exceed 1 mA.

When using lengthy connection wires (depending on the cross section used) the measuring result might be falsified due to a voltage drop at the common GND-wire (caused by the voltage current and the line resistance). In this case, 2 GND-wires must be wired to the sensor - one for supply voltage and one for the measuring current.

Accessories

Scope of delivery	Mounting plate Dowel Screws
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Wiring diagram



Dimensions

