

Contact Temperature Sensor

Surface contact temperature sensor for pipe applications. Spring loaded brass contact pin to ensure fast response and accurate reading. NEMA 4X / IP65 rated enclosure.


Type Overview

Type	Output signal passive temperature
01HT-1A	PT100
01HT-1B	PT1000
01HT-1C	Ni1000
01HT-1D	Ni1000TK5000
01HT-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	Water
Measuring data	Measured values	Temperature
	Measuring range temperature	depending on used sensor
	Accuracy temperature	PT.. : Class B, ±0.3 °C @ 0 °C Ni.. : ±0.4 °C @ 0 °C NTC10k (10k2): ±0.22 °C @ 25 °C
Materials	Cable gland	PA6, black
	Housing	Cover: Lexan, Belimo orange NCS S0580-Y6OR Bottom: Lexan, Belimo orange NCS S0580-Y6OR Seal: 0467 NBR70, black
Safety data	Ambient humidity	85% r.h., non-condensing
	Ambient Temperature	-35...50 °C [-30...122 °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	pending
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001

Safety notes



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

The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, 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

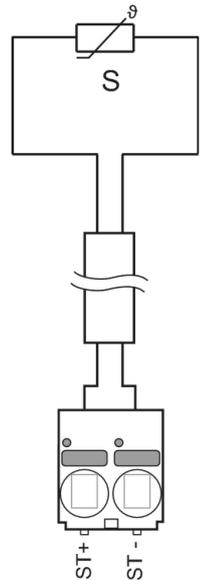
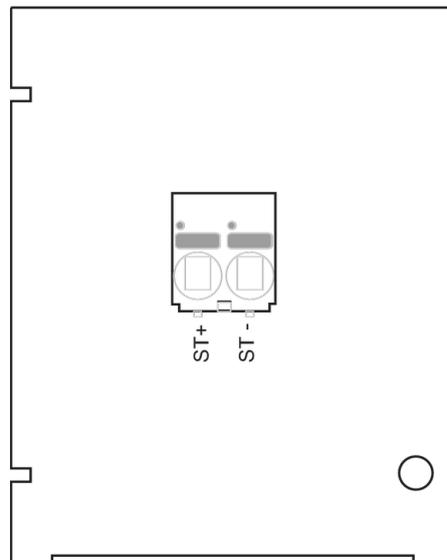
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy, so it should not exceed 1 mA.

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

Optional accessories	Description	Type
	Tightening strap 40...110 mm with contact fluid	A-22P-A41
	Tightening strap 50...900 mm with contact fluid	A-22P-A43

Wiring diagram



Dimensions

