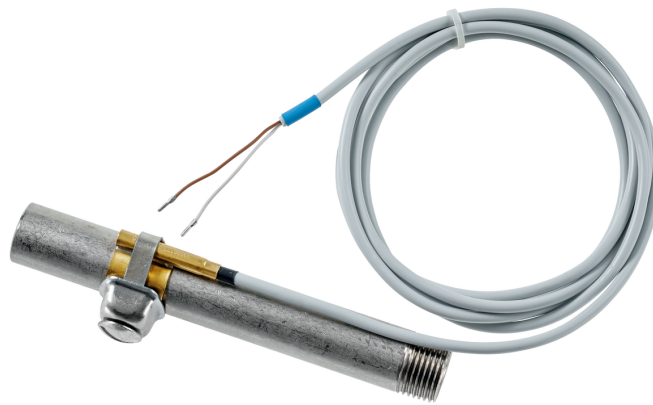


Contact Temperature Sensor

For temperature measurement on pipe and arched surfaces. PVC or plenum rated cable and a brass probe for fast response and accuracy.



Type Overview

Type	Output signal passive temperature
01ST-1A3	PT100
01ST-1B3	PT1000
01ST-1C3	Ni1000
01ST-1D3	Ni1000TK5000
01ST-1L3	NTC10k (10k2)

Technical Data

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, $\pm 0.3\text{ }^{\circ}\text{C}$ @ $0\text{ }^{\circ}\text{C}$ Ni.. : $\pm 0.4\text{ }^{\circ}\text{C}$ @ $0\text{ }^{\circ}\text{C}$ NTC10k (10k2): $\pm 0.22\text{ }^{\circ}\text{C}$ @ $25\text{ }^{\circ}\text{C}$
Safety data	Ambient humidity	85% r.h., non-condensing
	Ambient Temperature	$-35\text{...}100\text{ }^{\circ}\text{C}$ [$-30\text{...}210\text{ }^{\circ}\text{F}$]
	Protection class IEC/EN	III Protective extra-low voltage (PELV)
	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 4
	Quality Standard	ISO 9001
Weight	0.03 kg	

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

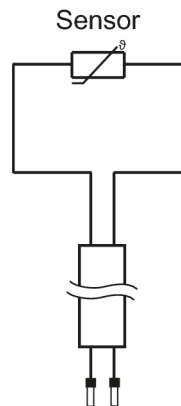
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy, so it should not exceed 1 mA.

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

