

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)
01ST-1Q3	NTC20k

Technical Data

Electrical data	Electrical connection	Cable 2 m, 2-wire
Functional data	Output signal passive temperature	PT100 PT1000 Ni1000 Ni1000TK5000 NTC10k (10k2) NTC20k
	Media	Water
Measuring data	Measured values	Temperature
	Measuring range temperature	-35...100 °C [-30...210 °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]
Safety data	Ambient humidity	Max. 95% r.h., non-condensing
	Ambient temperature	-35...100 °C [-30...210 °F]
	Medium temperature	-35...100 °C [-30...210 °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
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4
	Quality Standard	ISO 9001
	Weight	0.060 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

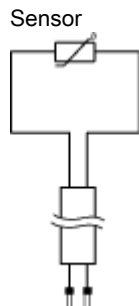
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy, so it should not exceed 1 mA.

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	Description	Type
Tightening strap for pipes up to Ø110 mm (A-22P-A47)		A-22P-A47
Optional Accessories		A-22P-A49
	Syringe thermal contact fluid	A-22P-A44

Wiring diagram



Dimensions

