

Cable Temperature Sensor

For measuring the temperature in pipe and air applications. Incorporates a stainless steel probe and plenum rated cable.


Type Overview

Type	Output signal passive temperature	Probe length	Probe diameter
01CT-1AH	PT100	50 mm	6 mm
01CT-1BH	PT1000	50 mm	6 mm
01CT-1CH	Ni1000	50 mm	6 mm
01CT-1DH	Ni1000TK5000	50 mm	6 mm
01CT-1LH	NTC10k (10k2)	50 mm	6 mm

Technical Data

Electrical data	Electrical connection	Cable 2 m, 2-wire
Functional data	Output signal passive temperature	PT100 PT1000 Ni1000 Ni1000TK5000 NTC10k (10k2)
	Media	Air 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 Ni.. : ±0.4 °C @ 0 °C NTC.. : ±0.2 °C @ 25 °C
Safety data	Ambient humidity	85% 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
	Certification UL	pending
	Degree of protection IEC/EN	IP65
	Degree of protection NEMA/UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.065 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

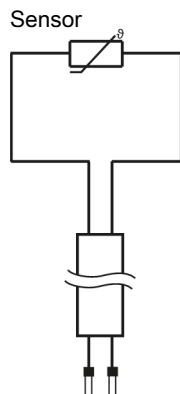
Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy, so it should not exceed 1 mA.

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.

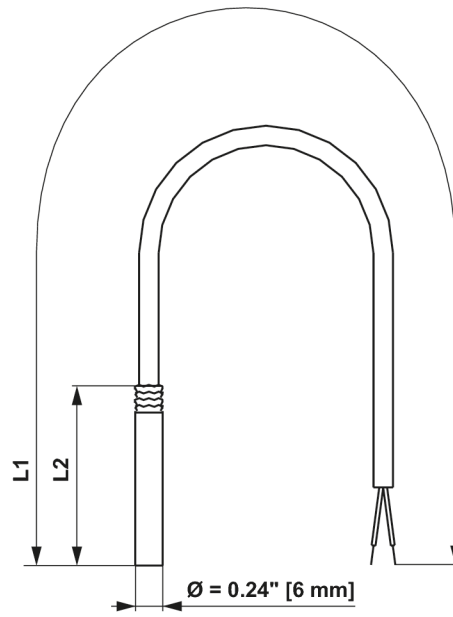
Accessories

Optional accessories air	Description	Type
	Mounting flange 6 mm, Plastic (adjustable), up to max. 120 °C	A-22D-A03
	Mounting flange 6 mm, Brass, up to max. 260 °C	A-22D-A05
Recommended accessories water	Description	Type
	Thermowell pocket Stainless steel, 50 mm, G1/2", SW27	A-22P-A06
	Thermowell pocket Stainless steel, 100 mm, G1/2", SW27	A-22P-A08
	Thermowell pocket Stainless steel, 150 mm, G1/2", SW27	A-22P-A10
	Thermowell pocket Stainless steel, 200 mm, G1/2", SW27	A-22P-A12
	Thermowell pocket Stainless steel, 300 mm, G1/2", SW27	A-22P-A14
	Thermowell pocket Stainless steel, 450 mm, G1/2", SW27	A-22P-A16
	Thermowell pocket Brass, 50 mm, G1/2", SW22	A-22P-A18
	Thermowell pocket Brass, 100 mm, G1/2", SW22	A-22P-A20
	Thermowell pocket Brass, 150 mm, G1/2", SW22	A-22P-A22
	Thermowell pocket Brass, 200 mm, G1/2", SW22	A-22P-A24
	Thermowell pocket Brass, 300 mm, G1/2", SW22	A-22P-A26
	Thermowell pocket Brass, 450 mm, G1/2", SW22	A-22P-A28
	Syringe thermal contact fluid	A-22P-A44
	Compression fitting with cutting ring, Stainless steel, G 1/4" (external thread) for 6 mm	A-22P-A45

Wiring diagram



Dimensions



Humidity seal rolling

L1 = 6.56 ft [2 m]

L1: cable length

L2 = 1.97" [50 mm] / 3.94" [100 mm] / 7.87" [200 mm]

L2: pocket length