

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

Functional data	Output signal passive temperature	PT100 PT1000 Ni1000 Ni1000TK5000 NTC10k (10k2)
	Media	Air
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...100 $^{\circ}\text{C}$ [-30...210 $^{\circ}\text{F}$]
	Medium temperature	-35...100 $^{\circ}\text{C}$ [-30...210 $^{\circ}\text{F}$]
	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 4X
	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.

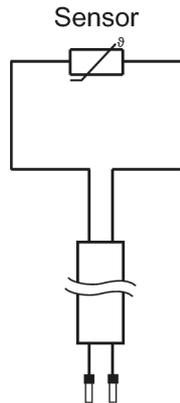
When using lengthy connection wires (depending on the cross section used) the measuring result might be falsified due to a voltage drop at the common GND-wire (caused by the voltage current and the line resistance). In this case, 2 GND-wires must be wired to the sensor - one for supply voltage and one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

Accessories

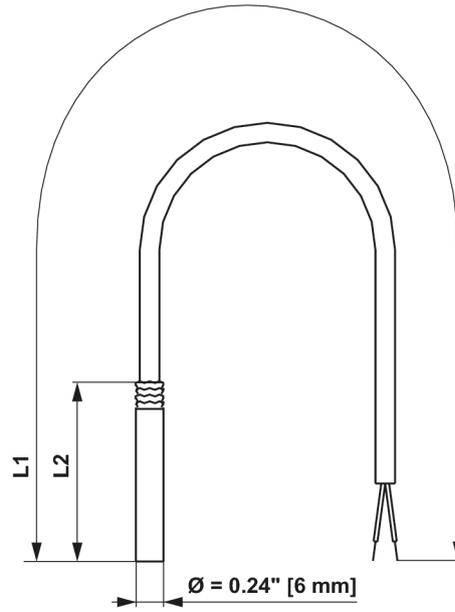
Optional accessories	Description	Type
	Mounting flange 6 mm, Plastic (adjustable), up to max. 120 °C	A-22D-A03
	Mounting flange 6 mm, Brass, up to max. 260 °C	A-22D-A05

For Immersion Application a Thermowell pocket A-22P-A.. is recommended.

Wiring diagram



Dimensions



Hexagon pressed

L1 = 6.56 ft [2 m]

L1: cable length
L2: pocket length

L2 = 2" [50 mm] / 4" [100 mm] / 8" [200 mm]