

Cable Temperature Sensor

Passive cable type 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-5AH	PT100	2" [50 mm]	0.24" [6 mm]
01CT-5BH	PT1000	2" [50 mm]	0.24" [6 mm]
01CT-5EH	Ni1000 (JCI)	2" [50 mm]	0.24" [6 mm]
01CT-5LH	NTC10k2	2" [50 mm]	0.24" [6 mm]
01CT-5MH	NTC10k3	2" [50 mm]	0.24" [6 mm]
01CT-5QH	NTC20k	2" [50 mm]	0.24" [6 mm]

Technical Data

Electrical Data	Cable Specification	1 pair shielded plenum cable, 22AWG tinned copper, green jacket, -40°F to 300°F (-40°C to 150°C), 300 V
Functional Data	Output Signal Passive Temperature	PT100 PT1000 Ni1000 (JCI) NTC10k2 NTC10k3 NTC20k
	Media	air water
Measuring Data	Measured Values	temperature
	Measuring Range Temperature Settings	-30°F to 210°F [-35°C to 100°C]
	Accuracy Temperature	passive sensors depending on used type PT.. = ±0.5°F @ 32°F [±0.3°C @ 0°C] Ni.. = ±0.7°F @ 32°F [±0.4°C @ 0°C] NTC.. = ±0.3°F @ 77°F [±0.2°C @ 25°C]
Safety Data	Ambient Humidity	85% RH non-condensing
	Ambient Temperature	-30°F to 210°F [-35°C to 100°C]
	Medium Temperature	-30°F to 210°F [-35°C to 100°C]
	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	IP67
	Degree of Protection NEMA/ UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.065 lbs

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. Unauthorized 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.

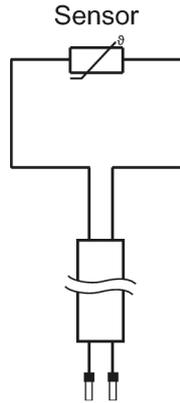
Please comply with

- 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

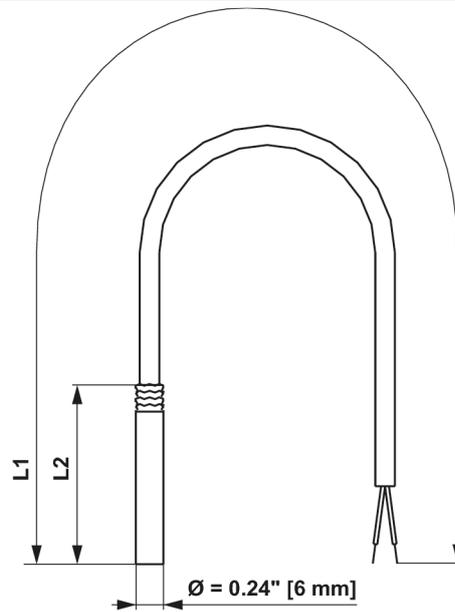
Accessories

Optional accessories air	Description	Type
	mounting flange 0.24" [6 mm], plastic (adjustable), up to max. 248°F [120°C]	A-22D-A03
	mounting flange mounting flange brass, up to max. 500°F [260°C]	A-22D-A05
Recommended accessories water	Description	Type
	thermowell pocket stainless steel (fabricated), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A05
	thermowell pocket brass (fabricated), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A17
	thermowell pocket stainless steel (machined), 2" [50 mm], 1/2" NPT, wrench size 3/4"	A-22P-A36
	thermowell pocket stainless steel (fabricated), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A07
	thermowell pocket brass (fabricated), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A19
	thermowell pocket stainless steel (machined), 4" [100 mm], 1/2" NPT, wrench size 3/4"	A-22P-A37
	thermowell pocket stainless steel (fabricated), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A09
	thermowell pocket brass (fabricated), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A21
	thermowell pocket stainless steel (machined), 6" [150 mm], 1/2" NPT, wrench size 3/4"	A-22P-A38
	thermowell pocket stainless steel (fabricated), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A11
	thermowell pocket brass (fabricated), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A23
	thermowell pocket stainless steel (machined), 8" [200 mm], 1/2" NPT, wrench size 3/4"	A-22P-A39
	thermowell pocket stainless steel (fabricated), 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A13
	thermowell pocket brass (fabricated), 12" [300 mm], 1/2" NPT, wrench size 3/4"	A-22P-A25
	thermowell pocket stainless steel (fabricated), 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A15
	thermowell pocket brass (fabricated), 18" [450 mm], 1/2" NPT, wrench size 3/4"	A-22P-A27
	syringe thermal contact fluid	A-22P-A44
	Compression fitting with cutting ring, stainless steel, G 1/4" (external thread) for 0.24" [6 mm]	A-22P-A45

Wiring Diagram



Dimensions



Humidity seal rolling

L1: cable length
L2: pocket length

L1 = 6.56 ft [2 m]

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