

Used as a duct temperature sensor with a mounting flange or as an immersion temperature sensor in combination with an immersion sleeve. With stainless steel probe and PVC cable. **Technical data sheet** 

## 01CT-1NH5





## **Type Overview**

	Туре	Output signal	Probe length	Probe diameter
	01CT-1NH5	NTC10k Carel	50 mm	6 mm
Technical Data				
Electrical data	Electrical connection		Cable 6 m, 2-wire	
Functional data	Output signal passive temperature Application		NTC10k (10k2)	
			Air Water	
Measuring data	Measuring values Measuring range temperature Accuracy temperature passive		Temperature	
			-35100°C [-30210°F	]
			±0.26°C @ 25°C [±0.48°	F @ 77°F]
	Measuring current		<2 mA @ 25°C [77°F]	
	Time constant $\tau$ (63%) in air duct		Typical 155 s @ 0 m/s Typical 35 s @ 3 m/s	
	Time constant τ (63%) in water pipe		With thermowell A-22P Typical 7 s with thermo Typical 9 s with thermo	
Safety data	Ambient humidity		Max. 95% r.H., non-condensing	
	Ambient temperatu	re	-35100°C [-30210°F]	
	Fluid temperature		-35100°C [-30210°F]	
	Protection class IEC	/EN	III Safety Extra-Low Voltage (SELV)	
	Protection class UL		UL Class 2 Supply	
	EU Conformity CE Marking			
	Certification IEC/EN IEC/EN 60730-1			
	Degree of protection IEC/EN IP67			
	Degree of protection		NEMA 4X	
	Quality Standard		ISO 9001	

## Safety notes



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 humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



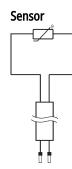
Re	m	a	rk	S
Re	m	a	rk	S

Accessories

General remarks concerning sensors Due to self-heating with 2 wire passive sensors, the supply wire current affects the measurement accuracy. So the supply current should not be higher than the measuring current values specified in this data sheet. When using lengthy connecting cables (depending on the cross section used), the cable resistance must be taken into account. The lower the impedance of the sensor used, the greater the effect of the line resistance on the measurement, because it generates an offset. **Optional accessories air** Description Туре Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic A-22D-A03

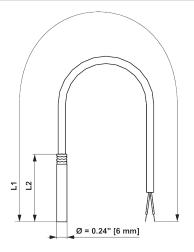
n, up to max. 260°C, Brass m, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27	A-22D-A05 <b>Type</b> A-22P-A06 A-22P-A08 A-22P-A10 A-22P-A12 A-22P-A14
nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27	A-22P-A06 A-22P-A08 A-22P-A10 A-22P-A12
nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27	A-22P-A08 A-22P-A10 A-22P-A12
nm, G1/2", SW27 nm, G1/2", SW27 nm, G1/2", SW27	A-22P-A10 A-22P-A12
nm, G1/2", SW27 nm, G1/2", SW27	A-22P-A12
nm, G1/2", SW27	
	A-22P-A14
nm, G1/2", SW27	A-22P-A16
', SW22	A-22P-A18
2", SW22	A-22P-A20
2", SW22	A-22P-A22
2", SW22	A-22P-A24
2", SW22	A-22P-A26
2", SW22	A-22P-A28
	A-22P-A44
/4" (external thread) for 6 mm, with	A-22P-A45
owell pocket A-22P-A	A-22P-A51
	", SW22 ", SW22 ", SW22 ", SW22 ", SW22 '4" (external thread) for 6 mm, with

## Wiring diagram









L1 = 19.69 ft [6 m]

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

Туре	Probe length	Weight
01CT-1NH5	50 mm	0.19 kg