

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

01CT-1NH5





Type Overview

PVC cable.

		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	Application		Air Water	
		Output signal pass	sive temperature	NTC10k Carel	
	Measuring data	Measured values		Temperature	
		Measuring range t	emperature	-35100°C [-30210	°F]
		Accuracy temperature passive Measuring current Time constant τ (63%) in air duct		±0.26°C @ 25°C [±0.4	8°F @ 77°F]
				<2 mA @ 25°C [77°F]	
				Typical 155 s @ 0 m/s Typical 35 s @ 3 m/s	
		Time constant τ (6	3%) in water pipe	With thermowell A-2. fluid	2P-A and thermal contact
				Typical 7 s with thern Typical 9 s with thern	
	Safety data	Ambient humidity		Max. 95% RH, non-co	
		Ambient temperat	ure	-35100°C [-30210	
		Fluid temperature		-35100°C [-30210	
		Protection class IE	C/EN	III, Protective Extra-L	ow Voltage (PELV)
		Power source UL		Class 2 Supply	
		Certification IEC/E	N	IEC/EN 60730-1	
		Degree of protecti	on IEC/EN	IP67	
		Degree of protecti	on NEMA/UL	NEMA 4X	
		Quality Standard		ISO 9001	
		Mode of operation	1	Туре 1	
		Pollution degree		3	
		Rated impulse volt	age supply	0.8 kV	
		Construction		Independently moun	ited control
		Method of mounti	na control	Surface mounted	



Technical data sheet

01CT-1NH5

L	7

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.

Remarks

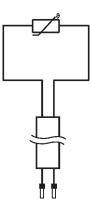
General remarks concerning sensorsDue to self-heating with 2 wire passive sensors, the supply wire current affects the
measurement accuracy. So the supply current should not be higher than the measuring current
values specified in this data sheet.When using lengthy connecting cables (depending on the 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.

Accessories

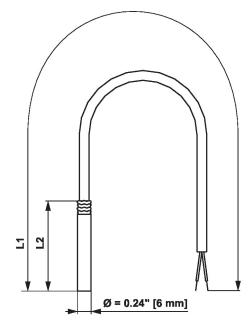
Optional accessories air	Description	Туре
	Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic	A-22D-A03
	Mounting flange for sensor probe 6 mm, up to max. 260°C, Brass	A-22D-A05
Recommended accessories water	Description	Туре
	Thermowell Stainless steel, 50 mm, G1/2", SW27	A-22P-A06
	Thermowell Stainless steel, 100 mm, G1/2", SW27	A-22P-A08
	Thermowell Stainless steel, 150 mm, G1/2", SW27	A-22P-A10
	Thermowell Stainless steel, 200 mm, G1/2", SW27	A-22P-A12
	Thermowell Stainless steel, 250 mm, G1/2", SW27	A-22P-A29
	Thermowell Stainless steel, 300 mm, G1/2", SW27	A-22P-A14
	Thermowell Stainless steel, 450 mm, G1/2", SW27	A-22P-A16
	Thermowell Brass, 50 mm, R1/2", SW22	A-22P-A18
	Thermowell Brass, 100 mm, R1/2", SW22	A-22P-A20
	Thermowell Brass, 150 mm, R1/2", SW22	A-22P-A22
	Thermowell Brass, 200 mm, R1/2", SW22	A-22P-A24
	Thermowell Brass, 250 mm, R1/2", SW22	A-22P-A30
	Thermowell Brass, 300 mm, R1/2", SW22	A-22P-A26
	Thermowell Brass, 450 mm, R1/2", SW22	A-22P-A28
	Syringe with thermal paste	A-22P-A44
	Compression fitting, Stainless steel, G 1/4" (external thread) for 6 mm, with cutting ring	A-22P-A45
	Cold barrier, Plastic, L 50 mm, for thermowell A-22P-A	A-22P-A51

Wiring diagram

Sensor







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