

Cable temperature sensor with mounting flange

For temperature measurement in air ducts. With 100/200 mm stainless steel probe and PVC cable





Туре	Output signal	Cable length	Probe length	Probe diameter
01CT-1ALF	Pt100	2 m	100 mm	6 mm
01CT-1APF	Pt100	2 m	200 mm	6 mm
01CT-1BLF	Pt1000	2 m	100 mm	6 mm
01CT-1BPF	Pt1000	2 m	200 mm	6 mm
01CT-1CLF	Ni1000	2 m	100 mm	6 mm
01CT-1CPF	Ni1000	2 m	200 mm	6 mm
01CT-1DLF	Ni1000TK5000	2 m	100 mm	6 mm
01CT-1DPF	Ni1000TK5000	2 m	200 mm	6 mm
01CT-1LLF	NTC10k (10k2)	2 m	100 mm	6 mm
01CT-1LPF	NTC10k (10k2)	2 m	200 mm	6 mm
01CT-1QLF	NTC20k	2 m	100 mm	6 mm
01CT-1QPF	NTC20k	2 m	200 mm	6 mm

01CT-1QLF	NTC20k	2 m	100 mm	6 mm
01CT-1QPF	NTC20k	2 m	200 mm	6 mm
echnical data				
	Electrical data	Electrical connection	Cable 2 m, 2-wire	
	Functional data	Application	Air	
		Output signal passive temperature	Pt100 Pt1000 Ni1000 Ni1000TK5000 NTC10k (10k2) NTC20k	
	Measuring data	Measured values	Temperature	
S	pecification Temperature	Measuring range	-35100°C [-30210	D°F]
		Measuring current	Pt100: <1 mA @ 0°C Pt1000: <0.3 mA @ 0 Ni1000: <0.3 mA @ 0 Ni1000TK5000: <0.3 NTC10k (10k2): <2 m	o°C [32°F] o°C [32°F] mA @ 0°C [32°F] oA @ 25°C [77°F]
		Accuracy temperature passive	•	_



Technical data

Specification Temperature	Time constant τ (63%) in water pipe	With thermowell A-22P-A and thermal contact fluid Typical 7 s with thermowell brass Typical 9 s with thermowell stainless steel
	Time constant τ (63%) in the air duct	Typical 155 s @ 0 m/s Typical 35 s @ 3 m/s
Safety data	Protection class IEC/EN	III, Protective Extra-Low Voltage (PELV)
	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP67
	Degree of protection NEMA/UL	NEMA 4X
	Certification IEC/EN	IEC/EN 60730-1
	Quality Standard	ISO 9001
	Type of action	Type 1
	Rated impulse voltage supply	0.8 kV
	Method of mounting control	Surface mounted
	Pollution degree	3
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-35100°C [-30210°F]
	Fluid temperature	-35100°C [-30210°F]

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 with 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 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.

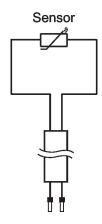
When using lengthy connecting cables (depending on the cross section used), the cable resistance must be taken into account. The lower the impedance of the sensor used, the greater the effect of the line resistance on the measurement, because it generates an offset.

Parts included

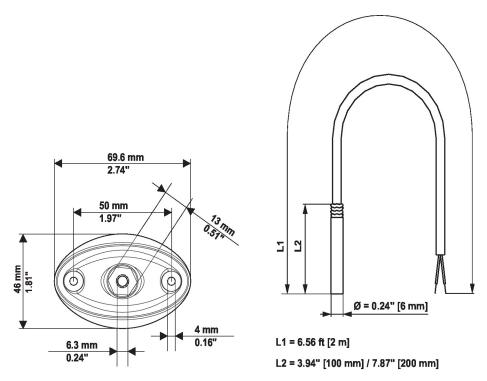
Description	Type	
Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F],	A-22D-A03	
Plastic		



Wiring diagram



Dimensions



Туре	Probe length	Weight
01CT-1ALF	100 mm	0.066 kg
01CT-1APF	200 mm	0.072 kg
01CT-1BLF	100 mm	0.078 kg
01CT-1BPF	200 mm	0.072 kg
01CT-1CLF	100 mm	0.066 kg
01CT-1CPF	200 mm	0.072 kg
01CT-1DLF	100 mm	0.066 kg
01CT-1DPF	200 mm	0.072 kg
01CT-1LLF	100 mm	0.078 kg
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01CT-1QLF	100 mm	0.066 kg
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