

Cable Temperature Sensor with mounting flange

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





# Type Overview

| Туре      | Output signal<br>passive<br>temperature | Probe length | Probe diameter | Weight   |
|-----------|-----------------------------------------|--------------|----------------|----------|
| 01CT-1ALF | PT100                                   | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1APF | PT100                                   | 200 mm       | 6 mm           | 0.075 kg |
| 01CT-1BLF | PT1000                                  | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1BPF | PT1000                                  | 200 mm       | 6 mm           | 0.075 kg |
| 01CT-1CLF | Ni1000                                  | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1CPF | Ni1000                                  | 200 mm       | 6 mm           | 0.075 kg |
| 01CT-1DLF | Ni1000TK5000                            | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1DPF | Ni1000TK5000                            | 200 mm       | 6 mm           | 0.075 kg |
| 01CT-1LLF | NTC10k (10k2)                           | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1LPF | NTC10k (10k2)                           | 200 mm       | 6 mm           | 0.075 kg |
| 01CT-1QLF | NTC20k                                  | 100 mm       | 6 mm           | 0.07 kg  |
| 01CT-1QPF | NTC20k                                  | 200 mm       | 6 mm           | 0.075 kg |

| echnical Data |                                   |                                        |
|---------------|-----------------------------------|----------------------------------------|
| Electrical da | ta Electrical connection          | Cable 2 m, 2-wire                      |
| Functional da | Output signal passive temperature | PT100                                  |
|               |                                   | PT1000                                 |
|               |                                   | Ni1000                                 |
|               |                                   | Ni1000TK5000                           |
|               |                                   | NTC10k (10k2)                          |
|               |                                   | NTC20k                                 |
|               | Media                             | Air                                    |
| Measuring da  | Measured values                   | Temperature                            |
|               | Measuring range temperature       | -35100 °C [-30210 °F]                  |
|               | Accuracy temperature passive      | Passive Sensors depending on used type |
|               |                                   | PT : Class B, ±0.3 °C @ 0 °C           |
|               |                                   | [±0.5 °F @ 32 °F]                      |
|               |                                   | Ni: ±0.4 °C @ 0 °C [±0.7 °F @ 32 °F]   |
|               |                                   | NTC: ±0.2 °C @ 25 °C [±0.3 °F @ 77 °F  |



| Technical data sheet | 01CT-1F |
|----------------------|---------|
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#### Safety data

| 85% r.H., non-condensing                |  |
|-----------------------------------------|--|
| -35100 °C [-30210 °F]                   |  |
| -35100 °C [-30210 °F]                   |  |
| III Protective extra-low voltage (PELV) |  |
| UL Class 2 Supply                       |  |
| CE Marking                              |  |
| IEC/EN 60730-1 and IEC/EN 60730-2-9     |  |
| IP67                                    |  |
| NEMA 4X                                 |  |
| ISO 9001                                |  |
|                                         |  |

## Safety notes



The installation and assembly of electrical equipment should only be performed by authorized personnel.

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 human, 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.

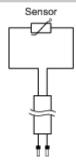
When using lengthy connection wires (depending on the cross section used) the measuring result might be falsified due to a voltage drop at the common GND-wire (caused by the voltage current and the line resistance). In this case, 2 GND-wires must be wired to the sensor - one for supply voltage and one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

## **Accessories**

Scope of delivery

Mounting flange 6 mm, Plastic (adjustable), up to max. 80 °C

## Wiring diagram





## **Dimensions**

