

## TEMPERATURE SENSORS FOR HVACR AND BUILDING AUTOMATION APPLICATIONS

This specification applies to temperature sensors suitable for duct installation. The sensors are listed below, divided into the type of sensor used and its accuracy class. The measuring element is made of an acid-resistant tube, 190 mm long and 6 mm in diameter. The sensor has a connection cable (max 125°C) with a length of 150 mm. Attachment to the channel is done via the sensor flange, also made of stainless steel. The sensors in question are used in the broadly understood HVACR industry, in BMS systems and building automation.

### TEMPERATURE SENSORS - "economical"



*HCC-05Kb series*

### SENSORS WITH PROPORTIONAL OUTPUT – RESISTIVE SENSORS

Sensor list / order code:

- **HCC-05Kb/PT100/B** (channel resistance thermometer with PT100 resistance resistor in class B\* )
- **HCC-05Kb/PT100/A** ( channel resistance thermometer with PT100 resistance resistor in class A\* )
- **HCC-05Kb/PT100/1/3B** ( channel resistance thermometer with PT100 resistance resistor in class 1/3B\* )
- **HCC-05Kb/PT100/1/10A** ( channel resistance thermometer with PT100 resistance resistor in class 1/10A\* )
- **HCC-05Kb/PT1000/B** ( channel resistance thermometer with PT1000 resistance resistor in class B\* )
- **HCC-05Kb/NTC1,8K** ( channel resistance thermometer with NTC1,8K thermistor )
- **HCC-05Kb/NTC2,2K** ( channel resistance thermometer with NTC2,2K thermistor )
- **HCC-05Kb/NTC5K** ( channel resistance thermometer with NTC5K thermistor )
- **HCC-05Kb/NTC10KCAREL** ( channel resistance thermometer with NTC10KCAREL thermistor )
- **HCC-05Kb/NTC10K3A1** ( channel resistance thermometer with NTC10K3A1 thermistor )
- **HCC-05Kb/NTC10K4A1** ( channel resistance thermometer with NTC10K4A1 thermistor )
- **HCC-05Kb/NTC20K** ( channel resistance thermometer with NTC20K thermistor )

*\* The class of the resistance resistor does not mean the same accuracy class for the entire resistance thermometer - sensor*

## Technical data

### HCC-05Kb series:

- output type: proportional to the placed sensor
- operating temperature: -40...125°C
- accuracy: according to the sensor class (the final sensor class can only be determined after testing in a calibration laboratory)
- protection: IP65
- electrical connection: cable
- measuring probe: length 190 mm, diameter 6 mm, material – stainless steel
- channel mounting: flange with a diameter of 42 mm

### Safety information:

*It is required, under penalty of loss of warranty, to comply with the following operating conditions. Installation, electrical connection, maintenance and commissioning of the sensors may only be performed by trained personnel.*

*All provisions and comments available in the documents provided by the manufacturer or distributor should be strictly observed.*

*The sensor must be used only for the purposes described and confirmed in the data sheet. Other uses not as stated or beyond the description will be considered unauthorized unless written consent has been obtained. Damage resulting from such unauthorized use does not involve the manufacturer's liability and in this case falls entirely on the user.*

### Transport and storage:

*The device must be transported in packaging that prevents mechanical damage and access to external weather conditions.*

*Particular attention should be paid to damage to the packaging or device.*

*The device should be stored in a dry room, without exposure to weather conditions, otherwise it should be protected against dirt and weather conditions until final installation. During transport, storage and operation, avoid exposing the device to very high and very low temperatures.*