

CAN bus climate sensor KS-CAN-03

Flexible, digital temperature-humidity sensor for indoor and outdoor applications

- ☑ Compact and robust construction for industrial use
- ☑ High measuring accuracy and excellent long-term stability due to the absence of any mechanical adjustment elements
- ☑ Fast and easy modification of baud rate (10 kBaud to 500kBaud) and Node-ID via Layer Setting Service



Technical data

Attributes

| | |
|---------|---------------------|
| Housing | Aluminium, anodized |
|---------|---------------------|

Measuring element and parameters

| | |
|------------------------|---------------------------|
| Humidity | capacitive, dew resistant |
| Temperature | Semiconductor |
| Measurement resolution | 12 Bit |
| Measuring grid | from 5 ms |

Electrical connection

| | |
|----------------|------------------------------------|
| CAN protocol | CANopen 2.0 A, according to ciA DS |
| Physical Layer | according to DIN 11898 |
| Option | Provision of the EDS file |

Conditions of use

| | |
|---|----------------|
| Operating temperature | -40...+80 °C |
| Storage temperature | -40°C...+120°C |
| Minimum air velocity required for measurement across the sensor | 1,5 m/s |

Measuring ranges

| | |
|----------------|----------------------------|
| Humidity | 0...100% relative humidity |
| Deviation | ±2 % |
| Settling time | 4 s |
| Temperature | -40...+80 °C |
| Abweichung | ±0,2°C (5...40 °C) |
| Einschwingzeit | 20 s |

Possible applications

- ☑ Archive monitoring
- ☑ Room air conditioning, also in mobile areas
- ☑ Use in weather stations and many other applications

Approvals

The device complies with the following standards

- ☑ EN 50082-1
- ☑ EN 50082-2

We reserve the right to make technical changes

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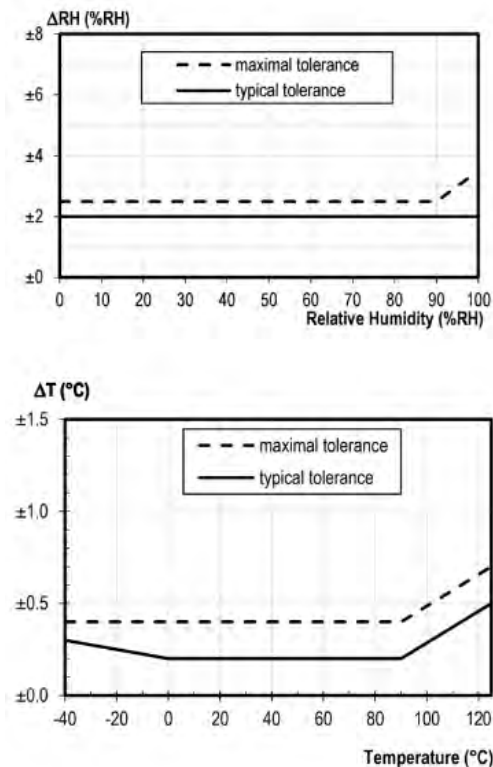
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Device design and dimensions

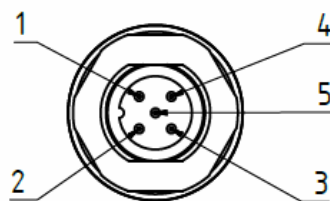


Protective Cap



Instructions for use

Pin assignment



- 1 Do not assign the programming PIN!
- 2 Operating voltage 10...48V DC
- 3 GND/CAN_GND
- 4 CAN_H
- 5 CAN_L

Recommended mounting position

Vertical, with cable extending upwards

Auf die Schraubklemme gesehen

Order

Scope of delivery

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Order options

- Desired measuring ranges as indicated
- Other electrical connection variants on request
- PTFE protective cap, aluminum cap, standard cap

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