



# T-130

## Temperature Sensor

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### Technical specifications and installation instructions

Item number 30518



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# 1. Description

The **T-130 temperature sensor** is used for the temperature sensor inputs in the KNX T6-UN-B4 evaluation unit or as a replacement probe for KNX T-UN 130. The sensor measures temperature both indoors and outdoors.

## 1.1. Technical specification

Sensor sleeve	Metal								
Cable colour	black								
Protection category	IP 68								
Dimensions	Sensor sleeve length approx. 20 mm, Diameter approx. 6 mm, Cable length approx. 300 cm								
Measurement range	-30...+130°C								
Precision at +25°C housing temperature for evaluation electronics	Sensor temperature max. deviation from measured value <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">±0°C</td> <td style="width: 50%;">± 1.0°C</td> </tr> <tr> <td>-30...+25°C</td> <td>± 1.5°C</td> </tr> <tr> <td>-30...+70°C</td> <td>± 2.5°C</td> </tr> <tr> <td>-30...+130°C</td> <td>± 4.0°C</td> </tr> </table>	±0°C	± 1.0°C	-30...+25°C	± 1.5°C	-30...+70°C	± 2.5°C	-30...+130°C	± 4.0°C
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The product conforms with the provisions of EU directives.

# 2. Installation and commissioning

## 2.1. Installation notes



Installation, testing, commissioning and fault repair may only be carried out by a qualified electrician (according to VDE 0100).

The device is only to be used for its intended purpose. Any improper modification or failure to follow the operating instructions voids any and all warranty and guarantee claims.

After unpacking the device, check it immediately for possible mechanical damage. If it has been damaged in transport, inform the supplier immediately.

The device may only be used as a fixed-site installation; in other words, only when assembled and after conclusion of all installation and operational start-up tasks and only in the surroundings designated for it.

Elsner Elektronik is not liable for any changes in norms and standards which may occur after publication of these operating instructions.

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## 2.2. Installation position

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The evaluation electronics of the sensor is installed in a socket. When selecting an installation location for the measuring sensor, please ensure that the measurement results are affected as little as possible by external influences. Possible sources of interference include:

- Direct sunlight
- Drafts from windows and doors
- Warming or cooling of the building structure on which the sensor is mounted, e.g. due to sunlight, heating or cold water pipes
- Connection lines which lead from warmer or colder areas to the sensor

Temperature variations from such sources of interference must be corrected in the ETS in order to ensure the specified accuracy of the sensor (temperature offset).

### 2.2.1. Connection of the sensor

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Connect the cable of the measuring sensor to the evaluation electronics (connection is reverse polarity protected). The cable connection may be extended up to 10 m maximum.