



## 1W-T-IB temperature sensor

The 1W-T-IB compact 1-Wire sensor is designed for reading the indoor temperature

### Technical parameters

<b>Sensor type</b>	DS18B20
<b>Temperature measuring range</b>	-30 °C/+100 °C (+1 °C accuracy) -10 °C/+55 °C (+ 0,5 °C accuracy)
<b>Connection</b>	1-Wire (screw terminal)
<b>Ingress protection</b>	IP30
<b>Case material</b>	ABS plastic
<b>Installation</b>	Wiring box (KU 68)
<b>Dimensions</b>	80 × 80 × 25 mm
<b>Power supply</b>	5 V (on a connector along with 1-Wire)
<b>Max. current draw</b>	1 mA

### Installation guide

1. Pry open the back of the case using a screwdriver (we recommend starting with the bottom edge)
2. Carefully remove the circuit board containing the screw terminal for data and power conductors
3. Connect the corresponding conductors according to the label on the terminal (remove the circular cover on the case's backplate and thread the conductors through if needed)
  - a. ← **1W**: 1-Wire bus input
  - b. → **1W**: 1-Wire bus output
  - c. **+5V**: positive DC voltage pin\*
  - d. **GND**: negative DC voltage pin\*
4. Re-assemble the sensor.

\* On all Unipi controllers the corresponding voltage is available on a single connector along with 1-Wire data conductor.

## Software

The sensor is fully compatible both with the [Mervis](#), the officially supported SW platform for Unipi products, and the [EVOK](#), an open-source application programming interface (API)

### Mervis

The sensor is based on the DS18B20 chip used in other 1-Wire thermometers on the Unipi e-shop and is used in the same way.

### EVOK

The sensor is detected automatically and be used right away. Measured values are accessible on an address of the particular sensor also serving as a device identification. You can find the address on a sticker provided with the product.

A request example: `192.168.221.78:8080/json/1wdevice/XYZ` (XYZ = sensor address)

## Useful info

- [Unipi Knowledge Base](#)
- [Unipi e-shop](#)
- [Unipi product catalogue](#)
- [Unipi homepage](#)

