

1W-T-IB2 AND 1W-TH-TB2 ON-WALL TEMPERATURE SENSOR + HUMIDITY SENSOR¹

A compact on-wall sensor for the 1-Wire bus, designed to measure temperature and relative air humidity in building interiors.

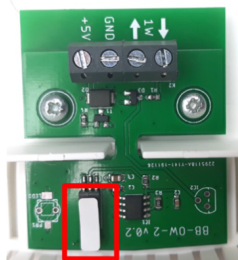


Basic parameters

Sensor type	DS2438 (temp.) + Honeywell HIH5030 (humidity) ¹
Temperature measurement range	-40 °C ... +85 °C with ±2 °C tolerance
Relative air humidity measurement range ¹	11 % RH ... 89 % RH (±3 % RH tolerance)
Connection	1-Wire (screw terminal)
Protection	IP30
Plastic box material	ABS plastic
Installation	Installation box (KU 68)
Dimensions	100 mm × 100 mm × 25 mm (h × w × d)
Power supply	5 V _{DC} (on connector along with 1-Wire)
Max. current draw	2 mA

Installation guide

- Remove the plastic box cover held in place by four small plastic holders visible from the below.
- Connect all conductors to the sensor's screw terminal according to the descriptions:
 - ↑ **1W**: 1-Wire bus input.
 - ↓ **1W**: 1-Wire bus output.
 - GND**: direct voltage negative pole.²
 - +5V**: direct voltage positive pole.²
- Thread the wires out of the box through the circular opening in the backplate.
- Remove the protective sticker covering the humidity sensor (see img.).¹
- Re-assemble the sensor.



¹ Only 1W-TH-IB2

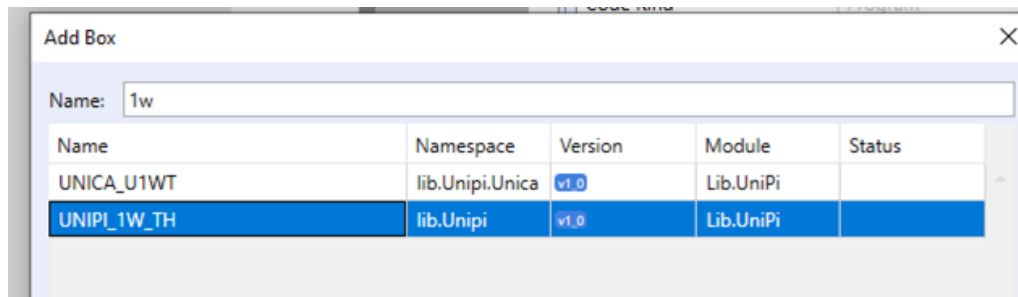
² On all Unipi controllers the corresponding voltage is available on a single connector along with 1-Wire data conductor.

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

For reading data from the sensor the Mervis IDE development environment contains UNIPi_1W_TH function block available in the Lib.Unipi library.



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.

NOTE

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

Useful information

- [Unipi Knowledge Base](https://kb.unipi.technology) (https://kb.unipi.technology)
- [Unipi e-shop](https://www.unipi.technology/shop) (https://www.unipi.technology/shop)
- [Unipi product catalogue](https://www.unipi.technology/products) (https://www.unipi.technology/products)
- [Unipi homepage](https://www.unipi.technology) (https://www.unipi.technology)

SKU:

1W-T-IB2 2020003

1W-TH-IB2 2020004



Compliance information

1W-T-IB2 and 1W-TH-IB2 complies with the requirements of EMC and RoHS directives relevant for European Union states.



WEEE Directive Statement for the European Union

1W2-T-IB2 and 1W-TH-IB2 cannot be disposed of as household waste. Different rules for handling electric waste may apply in other jurisdictions.

