



1W-TH-IB temperature sensor

The 1W-TH-IB compact 1-Wire sensor is designed for reading the indoor temperature and relative humidity.

Technical parameters

Sensor type	DS2438, Honeywell HIH5030
Temperature measuring range	-40 °C/+85 °C (+2 °C accuracy)
Humidity measuring range	11 % RH/89 % RH (+3 % RH accuracy)
Connection	1-Wire (screw terminal)
Ingress protection	IP30
Case material	ABS plastic
Installation	Wiring box (KU 68)
Dimensions	80 × 80 × 25 mm
Power supply	5 V (on a connector along with 1-Wire)
Max. current draw	2 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 device is compatible with the [SEDtronic](#) sensor line, allowing the user to use the same *Unica_U1WT* function block to read the values.

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](#)

