

# NB-2x1Wire

NB-IoT remote metering device with external sensors and internal battery. Portal required. IoT Monitoring device, cloud enabled by default, no expert on the site needed.



**You can connect:**

**Up to 4 sensors values**

- Temperature (Pt1000)
- Relative Humidity
- Carbon dioxide
- Water Leak Detection
- Atmospheric pressure
- Voltage sensor
- Current (4-20 mA)

NB-2x1Wire is remote metering IoT device with included sim card, connected to NB-IoT (Narrow Band) wireless network provided by your mobile operator.

You can connect and power from internal battery up to 4 external "1-Wire UNI" sensors (Temperature, Humidity, 4-20 mA, WLD Water Leak Detection, Light Sensor, Voltage, ...).

IoT device have to be connected to the SensDesk technology based portal. The HWg-cloud.com portal is free service, there are also listed other compatible portals.

Portal centralizes device management, remote FW upgrades, graphs, alerts by email, SMS or calls. PDF reports are also available.

**Portal based services**



**SensDesk Technology**

- HWg-cloud.com for free
- SensDesk.com as paid service
- Several Portal providers available

**SIM card included**

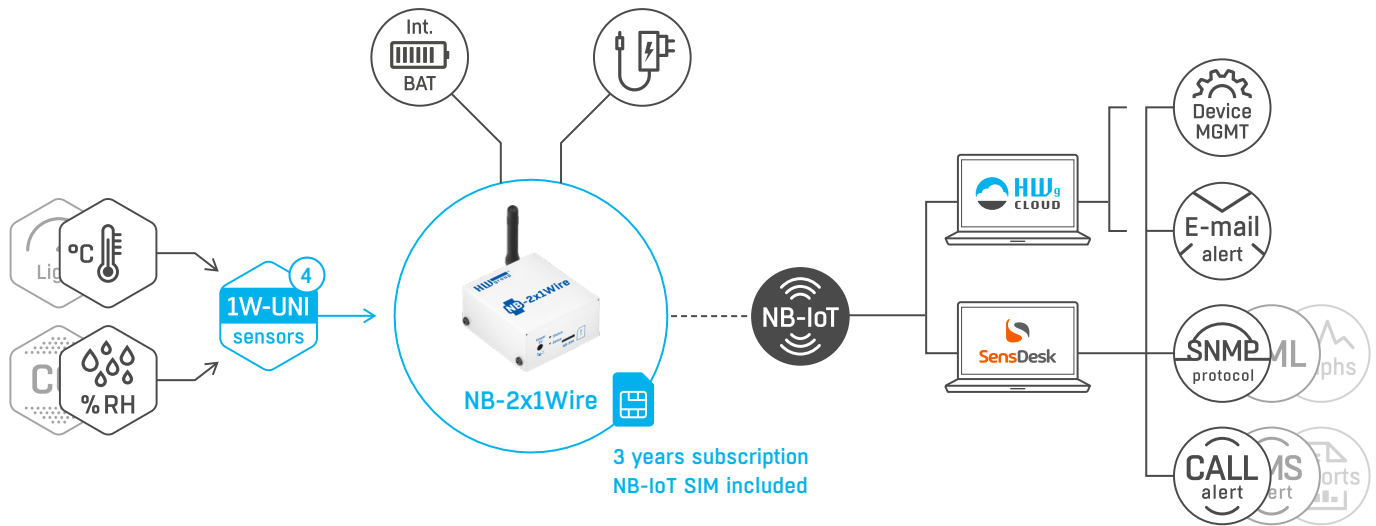
Subscribed version of this device is delivered with NB-IoT SIM card included. It provides 3 years of connectivity (Vodafone NB-IoT)

**4 sensor values**

Connect external sensors. Some of them can require external power. One sensor probe can display several sensor values.

**Internal battery**

Can power device & temperature sensor up to 3 years of metering with communication once per 10 hours.



3 years subscription  
NB-IoT SIM included

## Typical applications

- Remote building environment monitoring
- Air conditioning failure detection
- Temperature monitoring in refrigerators
- Food / Medical storage
- Agricultural premises (greenhouses, granaries, etc.)
- Diesel generators / remote batteries monitoring

## Technical specifications

External power	5VDC / 120 mA / Jack $\varnothing 3.5 \times 1.35 / 10$ mm
Internal battery	Lithium 3V model CR123A (included) Non-Rechargeable
Battery lifetime	Up to 3 years with 1 temperature sensor only / 20 °C
Operating temperature	-10 to +60 °C (for device)
Dimensions / weight	67×78×33 mm / 250 g
Electromagnetic radiation / EMC	CE/FCC Part 15, Class B / EN 55022, EN 55024, EN 61000

## Versions and related products



### HTemp-1-Wire Outdoor

Temperature and humidity sensor for outdoor use.



### Sensor CO2 1W-UNI

Combined Temperature (-0 to +50 °C), Relative Humidity (RH 0-95%) and CO<sub>2</sub> (300-40000 ppm) sensor in one box. RJ11 interface (1-WireUNI bus).



### UPS 12V and 5V

The "UPS 12V and 5V" is a backup power source for devices with 12V as well as 5V DC power supply which can be powered by the UPS simultaneously.



### Expander 4xDI 1W-UNI

Expansion module for connection of 4 dry contact inputs to Ares and Poseidon units. Connect another button, door contact, smoke detector etc. to the 1-Wire UNI bus (RJ11).



### Temp 1Wire Pt1000

High precision temperature sensor -50 °C to 200 °C - ideal temperature sensor for storages, food processing, freezers, medical and laboratory environments, agriculture and industrial applications.

## External sensors

Sensor ports	2× RJ11 (2 ports, 4 sensors values in total)
Compatible sensors	1-Wire / 1-Wire UNI sensors from HW group only
Sensors distance	Max. 60 m per each one port
You can monitor	Temperature, Relative Humidity, Voltage, AC / DC Current, Flood detection, CO <sub>2</sub> , VoC, Light intensity & many more..

## NB-IoT connectivity

Supported bands	B1/B2/B3/B4/B5/B8/B12/B13/B17/B18/B19/B20/B25/B26*/B28/B66
Carrier(s)	Vodafone (global) (HWg sim card) Other operators on request
"Subscribed" version	SIM card with Vodafone NB-IoT 3 years connectivity included
Device certifications	GCF (Global), CE (Europe), FCC/PTCRB (North America), IC, KC, NCC. JATE/TELEC, RCM, NBTC, IMDA
Radio Output power	23 dBm +-2 dB
Antenna / Sensitivity	External, SMA / 129dBm
Supported protocols	IP: UDP/IP (COAP)
Compatible portals	Any portal based on SensDesk technology