

NB-2xIn

Digital Inputs to the Portal

The NB-2xIn connects 2× DI (Digital Input) to the Portal over NB-IoT cellular network.

Each DI reading 0/1 state (Dry Contact) and Portal can analyze that. Pulse outputs SO for monitoring water or gas consumption can be also connected.







You can connect:



Dry Contact



Door contact



Power detector/switch

Electricity meter (pulses)



kWh

SO pulses

Water meter [m³]

The NB-2xIn is IoT Monitoring device so Portal service is required. Paid portal service from several providers available (any SensDesk Technology portal). Portal centralizes device management, remote FW upgrades, graphs, and Alerts by email, SMS, or Voice-calls. Open API and PDF reports are also available. The device is connected to the portal via NB-IoT (NarrowBand IoT) cellular network.

Portal based services



SIM card included

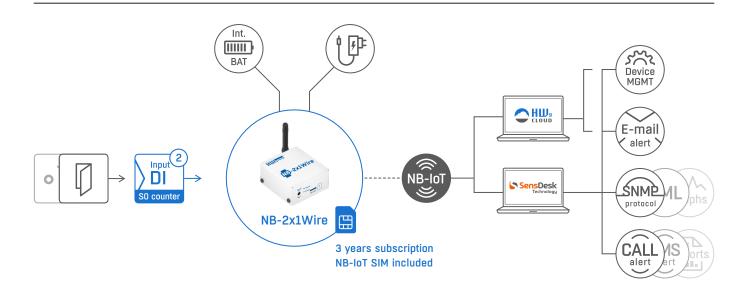
Subscribed version of this device is delivered with NB-IoT SIM card included. It provides 3 years of connectivity (3rd party SIM card for NB-IoT).

Internal batery

The NB-2xIn itself is powered by an internal battery or from an external power supply.

SensDesk Technology

- The NB-2xIn device and the portal are products of the HW group and are seamlessly integrated.
- Portal will alert you by email (SMS, Voice Call) if DI is switched On/Off.
- · Portal will alert you if device is disconnected (not available).
- Alarm state (0/1) can be defined for each DI.
- Free cloud available (HWg-cloud.com) with device management.
- HWg Monitor mobile App can show you all DI states in your portal account.
- SMS, Voice call alerts, or graphs & PDF reports can be used with paid portal services.



Typical application

- Remote monitoring of simple detectors (door contact, smoke, power and others)
- Metering water consumption (meter with S0 pulse output)
- Metering electricity (kWh) consumption from meter with pulse output

| Technical specifications | |
|------------------------------------|---|
| External power | 5V DC/120mA/Jack Ø3.5×1.35/10mm |
| Internal battery | Lithium 3V model CR123A (primary cell) |
| Battery lifetime | Up to 3 years/20°C |
| Operating temperature | -10 to +60°C (for device) |
| Dimensions / weight | 67×78×33mm / 250 g |
| Electromagnetic radiation / EMC | CE/FCC Part 15, Class B/EN 55022, EN 55024, EN 61000 |



Door contact MK4

Security Door contact MK4 with 2m connection wiring.



Water meter (SO output) Any 3rd party meter with pulse

output (SO) can be connected to the Portal.



Optical Smoke Detector

Optical Smoke Detector FDR26 for smoke detection and fire alarm signalisation.



Power detector

Detector of 110/230V voltage failure, which can be connected directly to a wall plug. Galvanic insulated relay output (NO) can be connected to any digital input (DI) of any HW grup product.

| External sensors | |
|------------------|--|
| Sensor ports | 2× DI (Digital Input) for dry contact |
| Туре | Digital Input (Dry contact) with SO pulse counter |
| Pulse counter | SO output compatible, 32-bit pulse counter, min. pulse width 20 ms |
| Sensitivity | 1 (On) = 0-500 Ohm |
| Max. distance | 10 m |

| NB-IoT connectivity | |
|-----------------------|---|
| Supported bands | B1/B2/B3/B4/B5/B8/B12/B13/B17/ B18/B19/B20/B25/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 |