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BY ELSEWEDY ELECTRIC



IE COMM NB-IOT PULSEREADER

Battery powered NB-IoT radio module, used for automated reading of water meters.

The module is capable of reading meters equipped with pulse outputs.

The collected data is transmitted over the NB-IoT network that has the advantage of great signal coverage, both inside and outside of buildings, over the already built-out network of mobile operators.

Key features

- LTE Cat NB1 frequency band B20
- Compatible with utility meters that have pulse outputs
- Remotely updating firmware
- One meter with pulse output readout
- Local and remote device configuration

Features

- Battery life time: up to 10 years (depending on device configuration and network radio signal quality)
- Protection type: IP68
- Operating temperature: -20°C ... 80°C
- Readouts from meters with built-in inductive pulse sensor
- Adjustable and pseudorandom measurement delivery sending interval in order to avoid network congestion
- Adjustable periodic interval of measurement sampling
- Embedded Real-Time Clock (RTC)
- Sending manipulation alarm information (Tamper), sending battery low alarm information, sending leakage and pipe burst alarm, under/over consumption, blocked meter
- Guaranteed measurement delivery even in the event of network failure (the device stores the measurements internally and delivers them once the network connection has been restored. In the event of an overflow, the device will delete the oldest one, first in first out principle)
- The devices deliver the measurements to Holosys NB-IoT cloud platform from which the readings are forwarded to the user or third party systems
- Possibility of remotely updating firmware
- Monitoring network and device performance through Holosys NB-IoT cloud platform
- Remote and local configuration of the device
- Due time
- Configuration log

Technical characteristics

Radio interface

Frequency	LTE Cat NB1 frequency band B20 (other bands on demand)
Antenna type	Internal

General data

Power supply	Integrated battery
Housing	Material: Thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Protection type: IP68 Mounting: Bolts on the mountable surface
Operating temperature range	-20°C ... 80°C

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