

Holosys NB-IoT PulseReader P1-N



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

Holosys NB-IoT PulseReader P1-N is a module used for automated reading of meter consumption from utility devices (water, gas, electrical energy, heating etc.). 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 good coverage, both inside and outside of buildings, over the already built-out network of mobile operators.

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
- Reading meters equipped with pulse outputs
- Adjustable and pseudorandom measurement delivery sending interval in order to avoid network congestion
- Adjustable periodic interval of measurement sampling
- Embedded Real-Time Clock (RTC)
- Tamper detection (manipulation alarm)
- 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 the Holosys NBloT Cloud 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 NBloT cloud
- Remote configuration of the device

TECHNICAL CHARACTERISTICS

Pulse input data	
Min. pulse duration (closed contact)	2 ms
Min. pause between pulses (open contact)	20 ms
Max. pulse frequency	45 Hz
Max. pulse frequency with 50% duty cycle	25 Hz
Contact voltage	2.5V...3.6V
Contact current	4 μ A
Contact resistance	1 M Ω
Radio interface	
Frequency	LTE Cat NB1 – frequency band B20
Antenna type	Internal
General data	
Power supply	Integrated battery Battery life time (25°C): ~10 years (depending on the configuration)
Housing	Material: Thermoplastic Dimensions (w x h x l): 77 x 77 x 35 mm Color: Light gray Protection type: IP68 Mounting: Bolts on the mountable surface Connecting cables length: ~1.5 m
Operating temperature range	-20°C ...+80°C
Weight	168 g