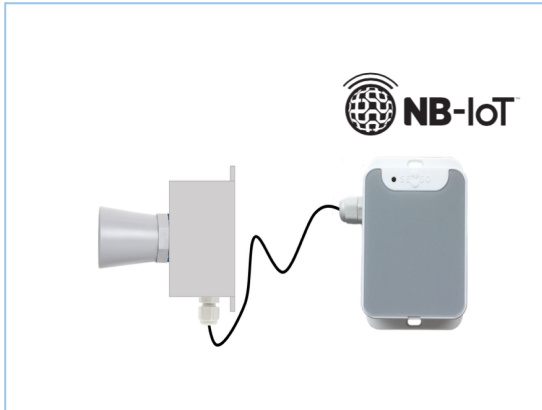


BATTERY POWERED WIRELESS IoT SOLUTIONS MONITOR PREMISES AND ASSETS 24/7

SEN21U00-0000 NB-IoT Ultrasonic Level Sensor



Product Features

- Provides a simple and cost-effective solution for detecting the level or distance in a specified area.
- Long distance measurement range: up to 5 meters.
- Fast response.
- 3 years battery lifetime.
- Easy installation without any complex wiring and pricey setup cost.
- Application: man-hole, tank level measurement, waste management, sewer system monitoring.

Performance Characteristics

Power	1 x 3.6V C Size Lithium Battery
Standby Current	< 30 uA @3.6V
Sensor Type	Fast response ultrasonic sensor specially for man-hole and tank level measurement
Detectable Distance	30cm to 500cm Accuracy: $\pm 1\%$
Typical Full Field of View (FOV)	About 11 degree
Data Upload Interval	Configurable (Default: 1 hour)
Measurement Interval	Configurable (Default: 3 mins)
On-device Alert Detection	Yes, exceeds or falls below threshold
Battery Life	Up to 3 years

Battery life conditions: measurement interval at 3 mins and upload data once per hour.

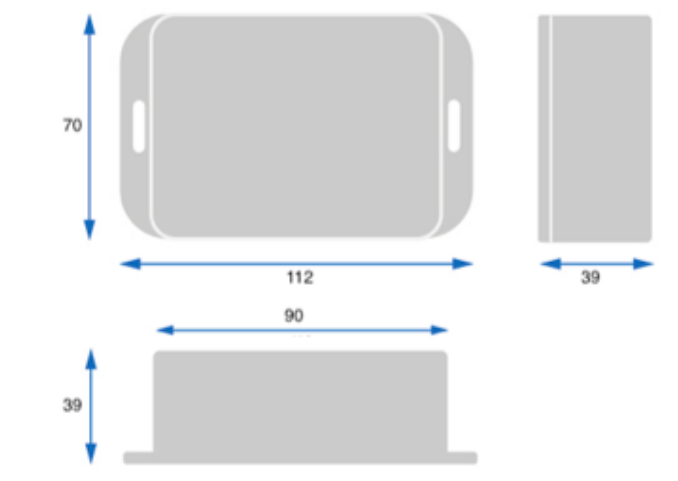
Wireless Characteristics

Wireless Connectivity	LTE Cat NB2 (NB-IoT)
NB-IoT Protocol	3GPP Release 14
Operating Band	3, 8, 20
Uplink Rate	16.7 kbps (Single Tone), 62.5 kbps (Multi-Tone)
Downlink Rate	25.5 kbps (Single Tone), 25.5 kbps (Multi-Tone)
Transmit Power	23 dBm ± 2 dB
Sensitivity	-116 dBm
Antenna Type	Built-in Antenna (External Antenna - Optional)

Physical Characteristics

Dimensions	L 112mm x W 70 mm x H 39 mm
Weight	115g (excluding ultrasonic detector) 250g (including ultrasonic detector)
Operating Temperature	-20 to 60°C
Storage Temperature	-20 to 70°C
Storage Humidity	< 95% RH
Ingress Protection	IP67
Warranty Period	1 Year

Mechanical Dimensions



Ordering Information

SENS08 NB-IoT Ultrasonic Level Sensor	SEN21U00-0000-0000
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