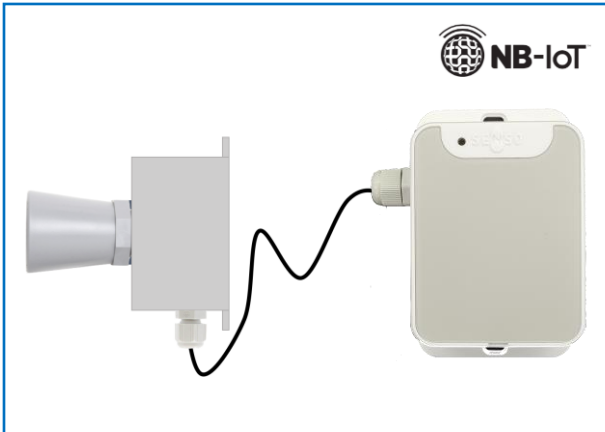




BATTERY POWERED WIRELESS IOT SOLUTIONS

MONITOR PREMISES AND ASSETS 24/7

SEN21U00-0000 NB-IoT Ultrasonic Level SENSOR



Product Features

- SEN21U00-0000 NB-IoT Ultrasonic Level Sensor provides a simply efficient solution to detect the level or distance in a specified area.
- Long Distance measurement range: up to 5 meter
- Fast response
- 3-year battery life
- Easy installation without any complex and pricey set up cost
- Application: man-hole, tank level measurement, waste management, sewer system monitoring

Performance Characteristics

Power	1 x 3.6V C Size Battery
Stand-by Current	<30uA @3.6V
Sensor type	Fast response ultrasonic sensor specially for man-hole and tank level measurement
Detectable Distance	30cm to 500cm Accuracy: +/- 1%
Typical full field of view (FOV)	≈ 11 degree
Data Upload Interval Measurement Interval	- Default 60min. Configurable - Default 3min. Configurable
Alert Conditions	Yes, a alert message to server when measured distance above or below threshold
Battery Life	Up to 3 years *

* Conditions: measurement interval at 3min, upload data at every 60 min

Wireless Characteristics

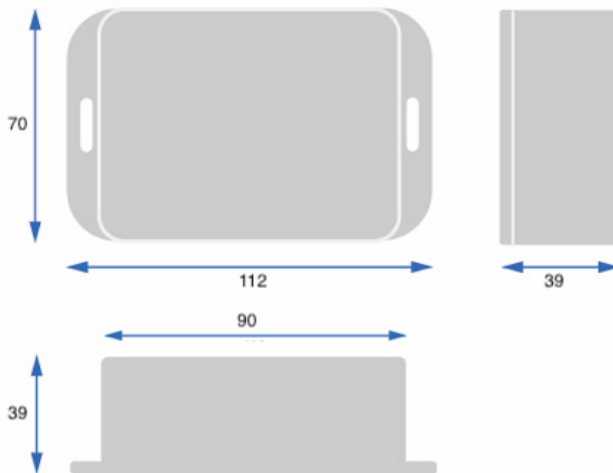
Wireless Connectivity	LTE Cat NB2 (NB-IoT)
NB-IoT Protocol	3GPP Release 14
Operating Band	3, 8, 20
Uplink Rate	16.7kbps (Single Tone), 62.5kbps (Multi-Tone)
Downlink Rate	25.5kbps (Single Tone), 25.5kbps (Multi-Tone)
Transmit Power	23 dBm +/- 2dB
Sensitivity	-116 dBm
Antenna Type	Built-in Antenna (External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

Physical Characteristics

Dimension	L 112mm x W 70mm x H 39mm
Weight	TBC
Operating Temperature	-20 to 60°C
Storage Temperature	-20 to 70°C
Storage Humidity Range	<95% RH
Ingress Protection	IP67
Warranty Period	1 Year

Mechanical Dimension

SENSO8 device:



Ultrasonic detector:

- Supporting Enclosure: 90 x 58 x 45mm (TBC)
- Sensor head: 50.7 mm x 43.8 mm dia
- Cable length: 1.5m

Ordering partnumber

SENSO8 NB-IoT Ultrasonic Level Sensor	SEN21U00-0000-0000
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