

## BATTERY POWERED WIRELESS IOT SOLUTIONS MONITOR PREMISES AND ASSETS 24/7

### SEN20100 NB-IOT AMBIENT TEMPERATURE & HUMIDITY SENSOR



#### Product Features

- SEN20100 NB-IoT Sensor provides a simply efficient solution for Ambient Temperature and Humidity monitoring.
- High precision measurements from -20°C to 60°C, 10% to 100% RH.
- Up to 3 years battery lifetime
- Easy installation without any complex and pricey set up cost
- Support open API
- Application: Cold Room, Refrigerator, Medical laboratory, Hotel, Hospital, Factory

#### Performance Characteristics

Power	1 x 3.6V C Size Battery
Stand-by Current	<30uA @3.6V
Temperature Temperature accuracy	-20°C to 60°C -20°C to 0°C within ±0.7°C, 0°C to 60°C within ±0.3°C
Humidity Humidity accuracy	10 to 100% RH 10-20% RH within ±4.5%RH, 20-80%RH within ±3%RH, 80-100%RH within ±4.5%RH
Data Upload Interval	Default every hour (configurable)
Alert Conditions	Yes, message to server
Battery Lifetime	Up to 3 years*

\* Conditions: measurement period at every 15min and upload data once per hour

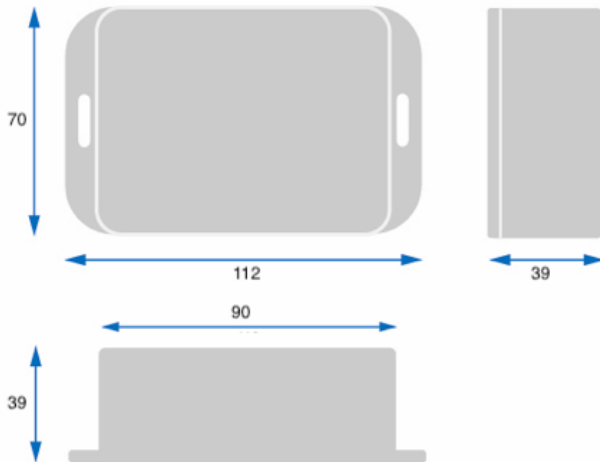
#### Wireless Characteristics

Wireless Connectivity	LTE Cat NB1 (NB-IoT)
NB-IoT Protocol	3GPP Release 13
Operating Band	1, 3, 5, 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	Build-in Antenna (External Antenna – Optional)

## Physical Characteristics

Dimension	L 112mm x W 70mm x H 39mm
Weight	166g
Operating Temperature	-20 to 70°C
Storage Temperature	-20 to 80°C
Storage Humidity Range	<95% RH
Warranty Period	1 Year

## Mechanical Dimension



## Ordering partnumber

SENS08 NB-IoT Ambient Temperature & Humidity Sensor	SEN20100-0000
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