

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

SEN21200 NB-IoT Temperature Sensor



Product Features

- Provides a simple and cost-effective solution for Temperature monitoring.
- Supports PT100 temperature probe, range from -200°C to 600°C.
- Supports LTE Cat NB2.
- Up to 3 years of battery life.
- Easy installation without any complex wiring and pricey setup cost.
- Supports open API.
- Application: Cold Room, Refrigerator, Medical laboratory, Hotel, Hospital, Factory.

Performance Characteristics

Power	1 x 3.6V C Size Lithium Battery
Standby Current	< 30 uA @3.6V
Temperature Range (PT100)	-200°C to 600°C, depends on application and material of the probe.
Data Upload Interval	Configurable (Default: 1 hour)
On-device Alert Detection	Yes, exceeds high/low temperature threshold
Battery Life	Up to 3 years

Battery life conditions: measurement interval at 15 mins and upload data once per hour.

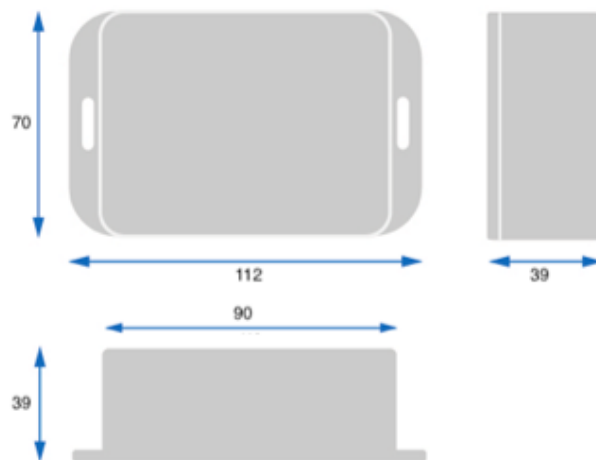
Wireless Characteristics

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	166g (excluding temperature probe)
Operating Temperature	-20 to 70°C
Storage Temperature	-20 to 80°C
Storage Humidity	< 95% RH
Ingress Protection	IP67
Warranty Period	1 Year

Mechanical Dimensions



Ordering Information

SENSO8 NB-IoT Temperature Sensor with temperature -50°C to 200°C	SEN21200-TP0A-0000
SENSO8 NB-IoT Temperature Sensor with temperature -100°C to 230°C	SEN21200-TP0B-0000
SENSO8 NB-IoT Temperature Sensor (*)	SEN21200-0000-0000

(*) Temperature probe not included, needs to be ordered separately.