



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

### LRS20200 LoRaWAN TEMPERATURE SENSOR



#### Product Features

- Provides a simple and cost-effective solution for Temperature monitoring.
- Support PT100 temperature probe, range from -200°C to 600°C.
- Instant alerts regardless of the data upload interval
- More than 10 years of battery life.
- Easy installation without any complex wiring and pricey setup cost.
- Application: Cold Room, Refrigerator, Medical laboratory, Hotel, Hospital, Factory.

#### Performance Characteristics

|                           |   |
|---------------------------|---|
| Power                     | 1 x 3.6V C Size Lithium Battery   |
| Standby Current           | < 25 uA @3.6V   |
| Temperature range PT100   | -200°C to 600°C, depends on application and material of the probe.  |
| Date Upload Interval      | Configurable (Default: 10 mins)   |
| On-device Alert Detection | Yes, exceeds high/low temperature threshold   |
| Battery Life              | Up to more than 10 years at 60 mins data upload interval<br>Up to 8 years at 10 mins data upload interval |

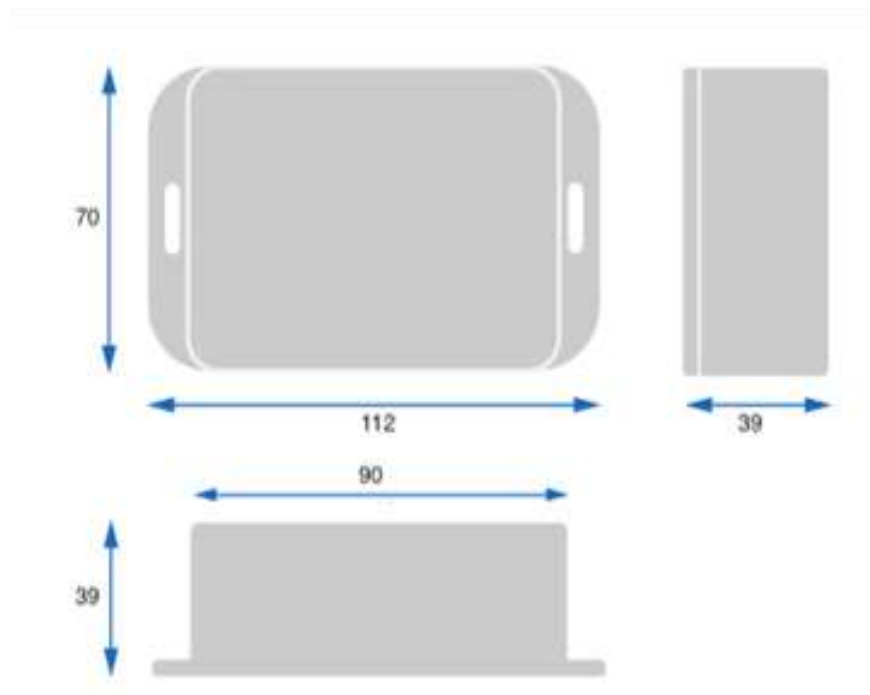
#### Wireless Characteristics

|                       |   |
|-----------------------|---|
| Wireless Connectivity | LoRaWAN® 1.0.3<br>EU863-870, US902-928, AU915-928, AS923                        |
| Transmit Power        | EU868, AS923: +16dBm<br>US915, AU915: +20dBm                                    |
| Sensitivity           | Max. -137dBm  |
| Data Transfer Rate    | 0.3kbps - 50 kbps   |
| LoRaWAN Features      | ABP/OTAA, ADR, Class A End-device   |
| Antenna Type          | Built-in Antenna  |
| Security              | AES-CTR (LoRaWAN End-to-End Encryption)<br>AES-CMAC (Data Integrity Protection) |

### Physical Characteristics

|                       |                                    |
|-----------------------|------------------------------------|
| Dimensions            | L 112mm x W 70 mm x H 39 mm        |
| Weight                | 115g (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

|   |                    |
|---|--------------------|
| SENS08 LoRaWAN Temperature Sensor -50°C to 200°C  | LRS20200-TP0A-000x |
| SENS08 LoRaWAN Temperature Sensor -100°C to 230°C | LRS20200-TP0B-000x |

x = frequency band: 0 - AS923, 1 - EU868, 2 - AU915, 3 - US915