

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

LRS20100 LoRa AMBIENT TEMPERATURE & HUMIDITY SENSOR



Product Features

- LRS20100 LoRa Sensor provides a simple and cost effective solution for Ambient Temperature and Humidity monitoring
- High precision measurements from -20°C to 60°C, 10% to 100% RH
- Up to 8 years battery lifetime
- Easy installation without any complex and pricey set up cost
- Application: Cold Room, Refrigerator, Medical laboratory, Hotel, Hospital, Factory

Performance Characteristics

Power	1 x 3.6V C size battery
Stand-by Current	<25uA @3.6V
Temperature Temperature Accuracy	-20°C to 60°C ±0.7°C (-20°C to 0°C) , ±0.3°C (0°C to 60°C)
Humidity Humidity Accuracy	10 to 100% RH ±4.5%RH (10-20% RH), ±3%RH (20-80%RH), ±4.5%RH (80-100%RH)
Data Upload Interval	Default 10 mins (configurable)
Alert Conditions	Yes, message to server
Battery Life	Up to 8 years*

* Conditions: data measurement and upload at every 10 mins

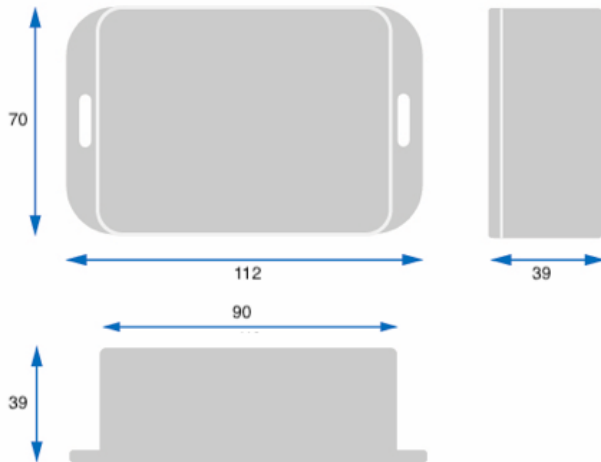
Wireless Characteristics

Wireless Connectivity	LoRaWAN: AS923
Transmit Power	Max. 14dBm
Sensitivity	Max. -130dBm
Data Transfer Rate	0.3kbps – 50kbps
Connect to Network	ABP / OTAA Class A
Antenna Type	Build-in Antenna (External Antenna – Optional)
Security	AES128

Physical Characteristics

Dimension	L 112mm x W 70mm x H 39mm
Weight	approx. 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

SEN8 LoRa Ambient Temperature & Humidity Sensor	LRS20100-0000-000W
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