

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

SEN21310 Series NB-IoT Water Rope Sensor



Product Features

- Provides a simple and cost-effective solution for monitoring water leakage.
- 0-300 analog measurement resolution, prevents false alert due to environment condition change.
- Continuous measurement and instant water leak alert.
- Works with up to 100 meter water rope sensor.
- Up to 5 years of battery life.
- Easy installation without any complex wiring and pricey setup cost.
- Supports open API.
- Application: Data Center Subfloor, HVAC Equipment, Water Pipes, Smart Toilets.

Performance Characteristics

Power	1 x 3.6V C Size Lithium Battery
Standby Current	< 30 uA @3.6V
Measurement Level	0 - 300
Supportable Water Rope Length	100 meters max.
Data Upload Interval	Configurable (Default: 1 hour)
On-device Alert Detection	Yes. Water Leak, measurement level exceeds threshold
Battery Life	Up to 5 years

Battery life conditions: measurement interval at 1 min and upload data once per hour.

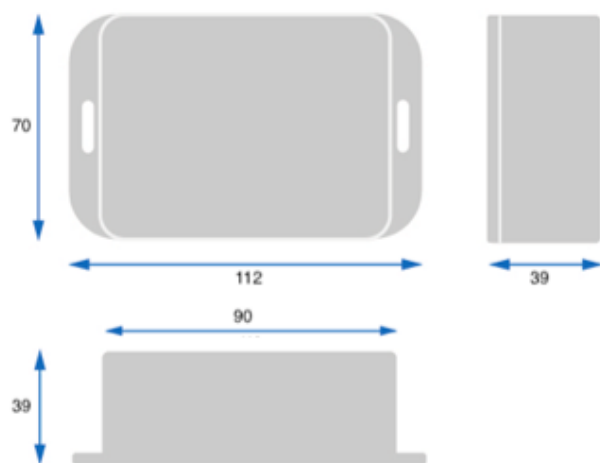
Wireless Characteristics

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 $\pm$ 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 water rope)
Operating Temperature	-20 to 70°C
Storage Temperature	-20 to 80°C
Storage Humidity	< 95% RH
Ingress Protection	IP65
Warranty Period	1 Year

Mechanical Dimensions



Ordering Information

SENS8 NB-IoT Water Rope Sensor - 1 meter	SEN21310-W201
SENS8 NB-IoT Water Rope Sensor - 2 meters	SEN21310-W202
SENS8 NB-IoT Water Rope Sensor - 3 meters	SEN21310-W203
SENS8 NB-IoT Water Rope Sensor - 5 meters	SEN21310-W205
SENS8 NB-IoT Water Rope Sensor - 10 meters	SEN21310-W210