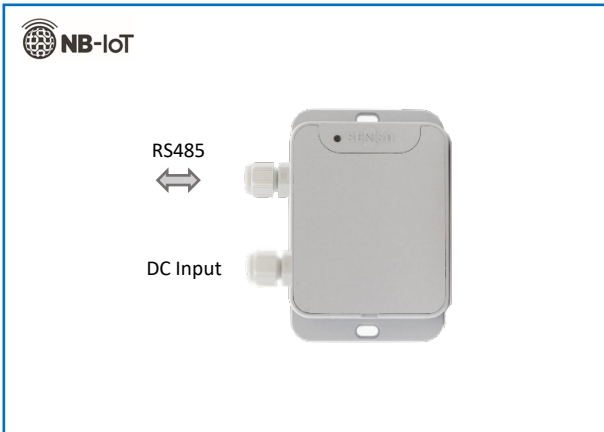


MONITOR PREMISES AND ASSETS 24/7

SEN2M401 RS485 TO NB-IOT GATEWAY



Product Features

- SEN2M401 RS485 to NB-IoT Gateway reads data from RS485 devices and sends it to IoT portal thru NB-IoT network
- Standard 2-wires RS485 Modbus RTU interface
- Wide range DC input voltage, integrated with a rechargeable backup battery
- Embedded with a Dry-contact output¹
- Support LTE Cat NB1
- Support open API
- Application: Commercial building, Residential Building, Hotel, Reconstruction Projects

Performance Characteristics

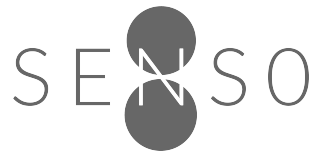
Power	DC input voltage: 8 – 14V , 1A max
Interface	RS485 Modbus RTU: 2-wire RS485A, RS485B, fail-safe Baud-rate (bps): 1200 / 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200
Dry Contact Output ¹	Form A (normal open) Contact Rating (Resistive): 1A@34V Peak AC load voltage 1A@30V DC load voltage On resistance : 0.25Ω(max) @ I _{load} =1A Relay ON time: 370μsec (typ.) @V _{load} =30V, I _{load} =200mA Relay OFF time: 50μsec (typ.) @V _{load} =30V, I _{load} =200mA Initial input output insulation resistance: 1 GΩ (min) @250VDC
Report Gateway Status	Radio Signal Quality and Power heartbeat once per hour by default (Configurable)
Alert	AC Power Interruption
Backup Battery	Li-ion battery, >400mAh SENSO8 switch to battery operation when DC input power disconnected
Backup Battery Lifetime	Up to 4 weeks ²

1. Optional function

2. Conditions: heartbeat once per hour

Wireless Characteristics

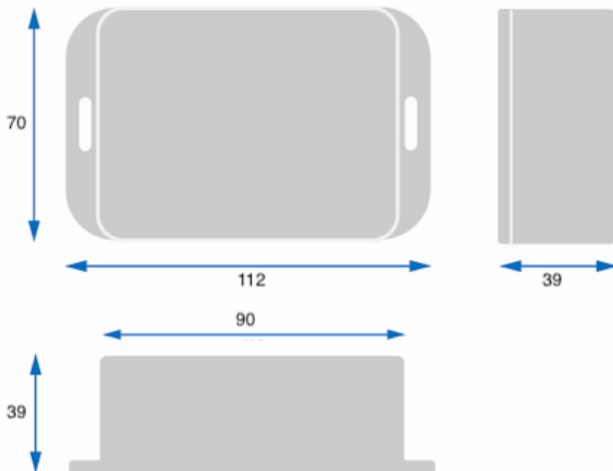
Wireless Connectivity	LTE Cat NB1 (NB IoT)
NB IoT Protocol	3GPP Release 13
Operating Band	1, 3, 5, 8, 20
Uplink Rate	16.7kbps (Single Tone), 62.5kbps (Multi-Tone)
Downlink Rate	25.5kbps (Single Tone), 25.5kbps (Multi-Tone)
Transmit Power	23 dBm +/- 2dB
Sensitivity	-116 dBm
Antenna Type	Build-in Antenna (External Antenna – Optional)



Physical Characteristics

Dimension	L 112mm x W 70mm x H 39mm
Weight	approx. 120g
Operating Temperature	-20 to 60°C
Storage Temperature	-20 to 80°C
Storage Humidity Range	<95% RH
Warranty Period	1 Year

Mechanical Dimension



Ordering Part Number

SENSO8 RS485 to NB-IoT Gateway	SEN2M401-0000-0000
SENSO8 RS485 to NB-IoT Gateway with Dry Contact Output	SEN2M401-00D1-0000