

MONITOR PREMISES AND ASSETS 24/7

LRS2M001-40xx series Power Meter LoRa SENSOR



Product Features

- LRS2M001-40xx LoRa Power Monitoring Device provides a simply efficient solution for monitoring power system
- Support Single or 3-phase power meter
- Robust RS485 interface, connect to industrial power meter control units
- Wide range DC input voltage, integrated with a rechargeable backup battery
- Application: Commercial building, Residential Building, Hotel, Reconstruction Projects

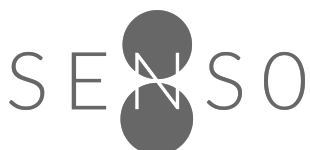
Performance Characteristics

Power Input	DC input voltage: 8 – 14V , 1A max
Interface to Power Meter	RS485, Modbus RTU protocol
Measurement	Voltage, Current, Active Power, Active Energy, Power Factor, Frequency
Alert Notification	Over Voltage, Under Voltage, Over Current and Communication Error
Data Upload Interval	Default 5 minutes (configurable)
Backup Battery	Li-ion battery, >400mAh SENSO8 switch to battery operation when DC input power disconnected
Backup Battery Life	Up to 4 weeks ¹

1. Conditions: heartbeat at every 15min

Wireless Characteristics

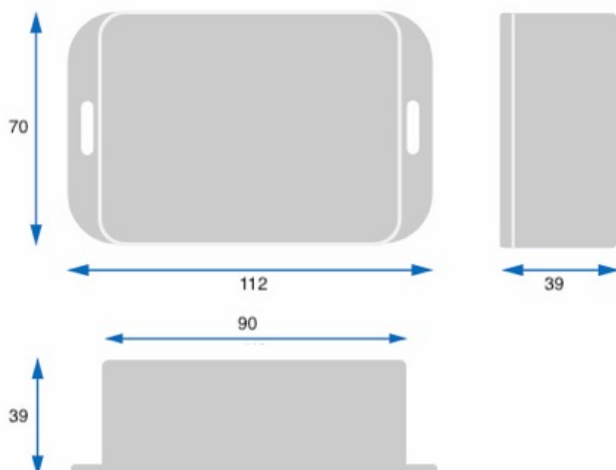
Wireless Connectivity	LoRaWAN® 1.0.3 Frequency Band: AS923 / US915
Max Transmit Power	AS923: +16dBm, US915: +20dBm Region Specific: +20dBm
Sensitivity	Max. -140dBm
Data Transfer Rate	0.3kbps – 50kbps
Connect to Network	ABP / OTAA, Class C
Antenna Type	Built-in Antenna (External Antenna – Optional)
Security	LoRaWAN® End-to-End encryption (AES-CTR), Data Integrity Protection (AES-CMAC)



Physical Characteristics

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

Mechanical Dimension



Ordering Part Number

SENSO8 RS485 to LoRa Sensor	LRS2M001-4000-0000
SENSO8 NB-IoT with Single Phase Power Meter Sensor with Control Unit [#] and Split Type CT [#]	SEN2M001-40PS-0000
SENSO8 NB-IoT with 3-Phase Power Meter [#] + 3x Split Core CT [#] for 100max	SEN2M001-40P3-1000

Please refer to power meter control unit specification and CT specification in separate documents