BATTERY POWERED WIRELESS IoT SOLUTIONS

MONITOR PREMISES AND ASSETS 24/7

SEN80310 LTE Cat-1 Inductive Sensing Water Meter Interface Unit

Product Features

- SEN80310 LTE Cat-1 inductive sensing water meter interface unit provides a simple and efficient solution for water meter reading without cable connection.
- Compatible interface with Itron Aquadis piston type water meter.
- Bidirectional flow measurement.
- Leakage, backflow, peak flow, tamper detection.
- Supports MQTT v3.1.1 protocol.
- Supports MQTT primary and secondary connection.
- IP68 waterproof and UV resistant.
- Supports FOTA.
- >12 years battery life.

Performance Characteristics

Power	8500mAh Lithium Thionyl Chloride (Li-$SOCl_2$) built-in battery
Data Sampling Frequency	Time-based: 1 to 1440 minutes (default: 30 minutes) Volume-based: 1 to 1000 L (default: 1L)
Data Upload Interval	1 hour to 60 days (default: 24 hours)
Data Storage	1,500 time-stamped meter values
Alert Notification	Low Battery, High flow rate, Backflow, MIU Tamper, Magnetic Tamper
Battery Life	12 years at 24-hour data upload interval

Wireless Characteristics

Wireless Connectivity	LTE Cat-1
LTE Cat-1 Protocol	3GPP Release 14
Operating Band	1, 3, 7, 8, 28
Uplink Rate	5 Mbps (LTE-FDD)
Downlink Rate	10 Mbps (LTE-FDD)
Transmit Power	23 dBm +/- 2dB
SIM Card	nano SIM (4FF) or embedded SIM
Antenna Type	Built-in Antenna

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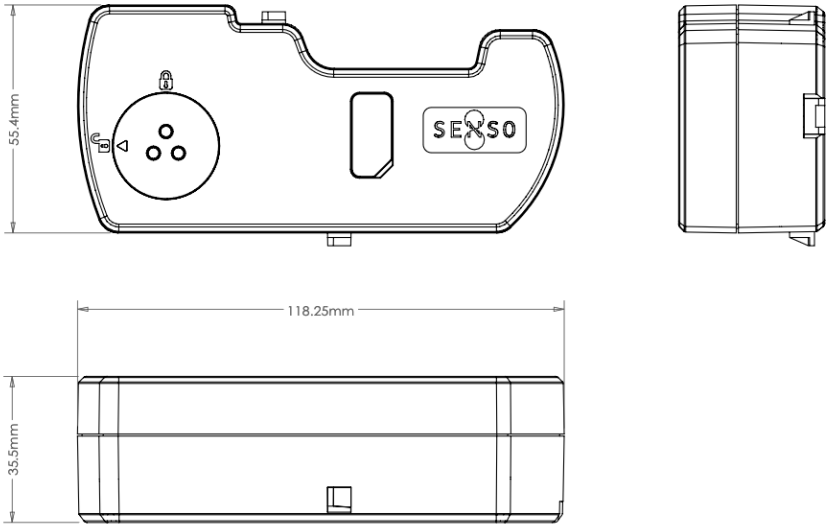
Compliance

IP68
EN/IEC 61000-6-1, EN/IEC 61000-6-3
Radio Equipment Specifications (HKCA 1057), Office of the Communication Authority (OFCA)

Physical Characteristics

Dimensions	L 118.25mm x W 55.4mm x H 35.5mm
Weight	Approx. 205g
Operating Temperature	0°C to 50°C
Operating Relative Humidity	0% to 100% (non-condensing)
Storage Temperature	-10°C to 60°C
Storage Humidity	0% to 100% RH (non-condensing)
Ingress Protection	IP68
Warranty Period	1 Year

Mechanical Dimensions



Ordering Information

SENSO8 LTE Cat-1 Water Meter Interface Unit	SEN80310-0000-0000

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