

# LoRaWAN RS485 IEC 62056-21 Meter Reader



Smart Building, Smart City, Smart Factory, Smart Facility

SKU: WSLRW-IEC485

## LoRaWAN RS485 IEC 62056-21 METER READER WSLRW-IEC485



Safe Zone



Hazardous Zones

WSLRW-IEC485 is a LoRaWAN node with a RS485 master port to connect to water meter, power meter, gas meter, or flow computer with an RS485 slave port. The device supports IEC 62056-21 protocol. The device is configurable via offline software and downlink messages. It is powered by external power supply. The sensor will transmit data over kilometers to the LoRaWAN gateway, any brand on the market. It supports all LoRaWAN frequency bands.

### Applications

Electric Meter Reading, Gas Meter Reading, Water Meter Reading

### Notes For Applications

- Data Rate and Distance: Ensure it supports the required data rate and distance for your application.
- Power Supply Voltage: Check compatibility with your system's power supply.
- ESD Protection: Look for built-in protection against voltage spikes.
- Operating Temperature Range: Ensure it suits your application's environment.
- Unit Load: Lower unit loads allow more devices on the bus.
- Package Type: Ensure it fits your design's space constraints.
- Noise Immunity: Evaluate for performance in noisy environments.



### LoRaWAN Compliance

Compliance with any LoRaWAN gateway and Network Server



### Connection to any RS485 IEC 62056-21 slave device

Support any IEC 62056-21 slave device



### 10-Year battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with 02 x Type AA batteries.



### IP68

For both indoor and outdoor applications

## LoRaWAN NETWORK



## DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

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www.iot.daviteq.com

Created date: Mar-20-2025

Updated date: Apr-22-2025

Specification

Input port	1 x RS485 master port
Connector	M12 port for RS485+ and RS485-
Protocol	IEC 62056-21
Fault protected RS-485 bus pins	up to ±40V
HBM ESD protection on RS-485 bus pins	±15kV
Extened common mode range	±15V (larger than required for RS-485)
High transient over voltage tolerance	±60V
Full fail-safe RS-485 receivers	open, short, terminated
COMMUNICATION	
SF Factors	SF7~SF12
Antenna	Internal Antenna 2.0 dbi
Battery	02 x AA size 1.5VDC (battery not included)
RF Frequency and Power	860~930MHz, 14~20dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN, class A
Data sending modes	Interval time, alarm, magnetic key trigger, and downlink trigger
Certification	CE, FCC
Working temperature	-40~60°C (with AA L91 Energizer®)
Dimensions	H180xW50xD40
Net-weight	250g
Housing	Polycarbonate & POM plastic, IP68
Mounting	Wall mount

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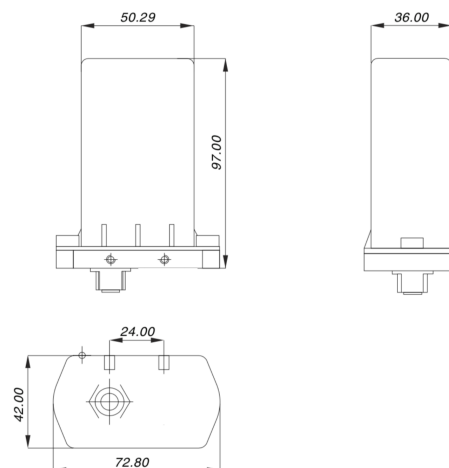
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## Connect to meter via RS485 IEC 62056-21

DIMENSION DRAWING OF WIRELESS SENSOR  
(Unit: mm)

## RECOMMENDED BATTERIES

## E91 AA Alkaline battery



-18 .. + 60 °C working temperature

10-year shelf life

3000 mAh Capacity

Price: 1X

## L91 AA Lithium battery



-40 .. + 60 °C working temperature

20-year shelf life

3500 mAh Capacity

Price: 3.5X

## WHAT'S IN THE PACKAGE?

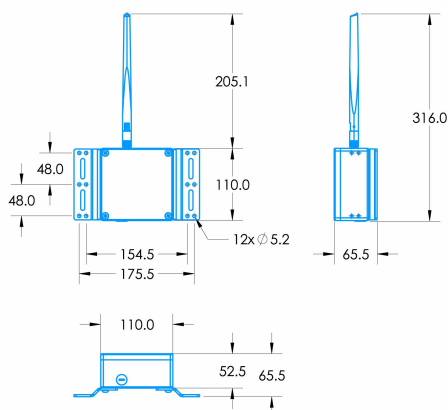
Main Device



Parts kit

LORAWAN PRECISION TILT ANGLE SENSOR  
FOR STRUCTURAL HEALTH MONITORING

WSLRW-SHMAG

DIMENSION DRAWING OF  
WIRELESS NODE (Unit: mm)LORAWAN PRECISION TILT ANGLE SENSOR  
FOR STRUCTURAL HEALTH MONITORING

WSLRW-SHMAG

LS 33600  
Lithium battery-60~85°C working temperature  
Low self-discharge rate  
17000 mAh capacity

RECOMMENDED BATTERIES

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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-IEC485-01	LoRaWAN meter reader with RS485 Master port, IEC 62056-21 protocol, internal antenna, 860~930 MHz
WSLRW-IEC485-04	LoRaWAN meter reader with RS485 Master port, IEC 62056-21 protocol, 860~930 MHz, IP65, Internal Antenna, Battery Powered, Plastic Case, 2m-cable