LoRaWAN Current Input Node



Smart Agriculture, Smart Building, Smart City, Smart Energy, Smart Facility, Smart Factory, Smart Farm. Smart Retail. Smart Utilities

SKU: WSLRW-MA





Hazardous Zones

WSLRW-MA is the LoRaWAN wireless node with one channel to measure 0-20mA DC current from Process instruments like Pressure transmitter, Temperature transmitter, Level transmitter, Flow meters, Analyzers... at very low voltage drop. With Ultra-low-power design and smart firmware allow the sensor can last up to 10 years with 2 x AA batteries (depends on configuration). The sensor will transmit data in the kilo-meters distance to LoRaWAN gateway, any brand on the market.

Applications

Process Monitoring, Safety Monitoring

Notes For Applications

- mA sensor power supply: Check transmitter output of 15 VDC to match mA sensor if sensor power source is from transmitter
- Accuracy and resolutions: Check whether those meet the requirements
- Environmental Conditions: Account for temperature, humidity, and other environmental factors.
- Mounting and Enclosure: Determine the mounting method and enclosure type.
- Compatibility: Ensure compatibility with your existing system or sensors.

LoRaWAN communication

LoRaWAN communication standard to allow sensor connect to any LoRaWAN Gateway on the market.

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 a $2 \times AA$ Type battery.

Pre-calibrated

Sensors are pre-calibrated at factory to deliver high accuracy and quick installation

IP67/IP68

For both indoor and outdoor applications

LORAWAN SENSOR CURRENT INPUT CONNECT WITH 4-20mA LEVEL SENSOR 4-20mA Loop powered WSLRW-MA-H2 PNG

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Specification

Measuring range	0~20mA
Accuracy	0.05% of span
Resolution	1/3000
Permissible input current	Max 60 mA
Permissible voltage	Max 2.5V (between AI+ and AI-)
Power supply output	15VDC max (Configurable via offline tool)
Temperature drift	< 50ppm
Sensor port connector	M12-Male, 4-pin A-coding (IP67 version) or 2m cable (IP68 version)
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
Configuration	via Downlink or Offline tool (free software)
Data sending modes	Interval time and when alarm occurred
Certification	CE mark, FCC
Working temperature	-40∼60°C (with AA L91 Energizer®)
Dimensions	H180xW50xD40
Net-weight	250g
Housing	Polycarbonate & POM plastic, IP67/IP68

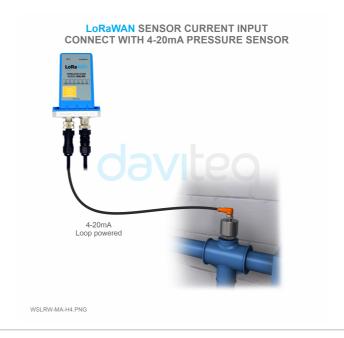
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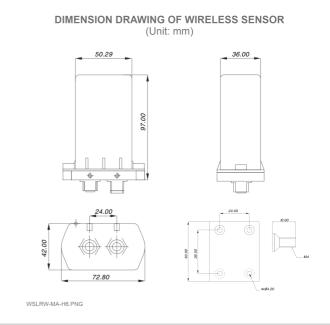
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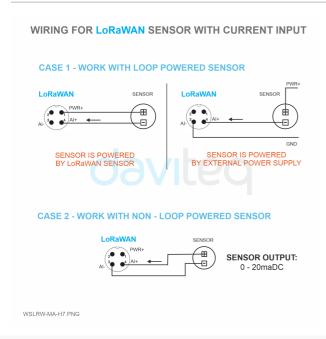














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Ordering Information

ITEM CODE	DESCRIPTIONS
WSLRW-MA-11	LoRaWAN Node with Single channel 0-20mA current input, with 15VDC power output to sensor, internal antenna, accuracy 0.05%, 2m shielded cable, Type AA battery 1.5VDC, IP68, 860-930MHz for all regions
WSLRW-MA-21	LoRaWAN Node with Single channel 0-20mA current input, with 15VDC power output to sensor, internal antenna, accuracy 0.05%, M12 female connector, Type AA battery 1.5VDC, IP67, 860-930MHz for all regions
WSLRW-MA-22	LoRaWAN Node with Single channel 0-20mA current input, with 15VDC power output to sensor, external antenna, accuracy 0.05%, M12 female connector, Type AA battery 1.5VDC, IP67, 860-930MHz for all regions
ACCESSORIES	
2M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm², L=2m, RoHS, Shield 80%
5M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm², L=5m, RoHS, Shield 80%
10M-MM12CAB4x0.25	M12 4pin Male assembly connector with Soldering terminals and coding A and Control Cable Cu/PVC/OS/PVC 4x0.25mm², L=10m, RoHS, Shield 80%

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