Wireless Sensor 0-20mA Current Input



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

SKU: WS433-MA







Wireless sensor 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. It is configured the operation parameters like data sending interval, health check cycle... remotely from Globiots platform or via ModbusRTU software. The wireless module can last up to 10 years with a single AA battery.

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.

WIRELESS SENSOR CURRENT INPUT

CONNECT WITH 4-20mA INSTRUMENTS

Reliable & Secured Wireless Connection
Sub-Ghz technology from Texas Instruments allow

Sub-Ghz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128

10-year with a single battery

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology fromTexas Instruments allow the sensor can last up to 10 years with a single battery AA.

✓ Low Voltage Drop

Only 3.0VDC voltage drop on the current loop

Long range Transmission

Narrow Band techniques & Sub-Ghz technology allow long distance transmisison at lowest energy consumption

4-20mA Pressure Sensor Loop Powered WS433-MA-H2.PNG

DAVITEQ TECHNOLOGIES INC

- o Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH
- +84.28.6268.2523 / 6268.2524
- info@daviteq.com
- www.iot.daviteq.com



Specification

Measuring range	0~20mA
Accuracy	0.05% of span
Resolution	1/3000
Temperature drift	< 50ppm
Electrical connection	shielded cable 0.5m length with PG9 cable gland
Optional accessories	304SS Adapter PG9/male 1/2"NPT or PG13.5 or M20 to allow direct mounting on Process instruments or electrical panel
Data speed	Up to 50kbps
Tranmission distance, LOS	500m
Antenna	Internal Antenna, 3 dbi
Battery	01 x AA 1.5VDC, up to 10-year operation, depends on configuration
Frequency Band	ISM 433MHz, Sub-GHz technology from Texas Instrument, USA
Receiving Sensitivity	-110dBm at 50kbps
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Security Standard	AES-128
Operating temperature of PCB	-40∼60°C (with AA L91 Energizer®)
Housing	Poly-carbonate, IP67
Installation method	L-type bracket SUS304 , by M4 screws or double-sided 3M tape (included)
Product dimensions	125x30x30mm
Net weight (without battery)	<100g
Box dimension	190x50x50mm
Gross weight	140g

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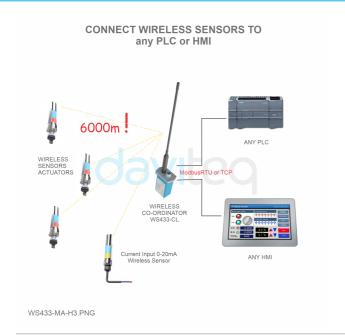
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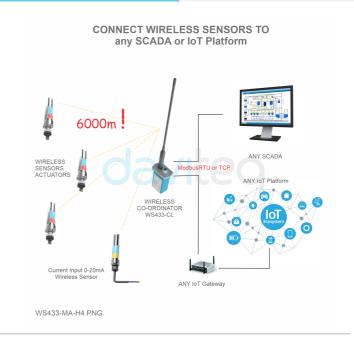
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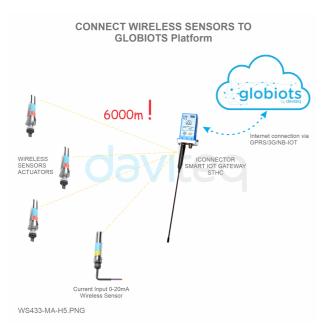
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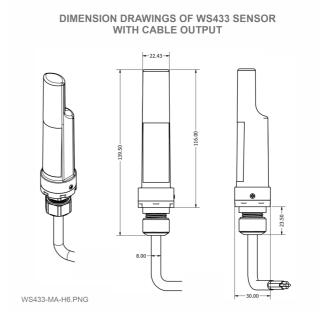
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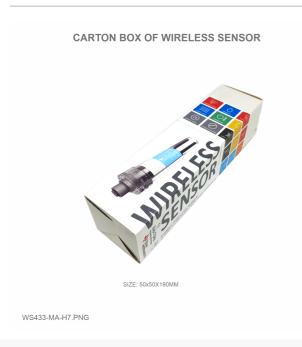














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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-MA-11	Wireless Sensor 1-channel 0-20mA DC current input, IP67, battery AA 1.5VDC, shielded cable 0.5m length with PG9 cable gland

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