

Wireless Sensor Transmitter



Smart Agriculture, Smart Building, Smart City, Smart Energy, Smart Facility, Smart Factory, Smart Farm, Smart Healthcare, Smart Retail, Smart Transportation, Smart Utilities

SKU: WS433-M12F

WIRELESS SENSOR WS433-M12F



WS433-M12F-H1.PNG

Safe Zone

Hazardous Zones

WS433-M12F Wireless sensor transmitter utilizes the Sub-GHz technology from Texas Instruments allows long range transmission at ultra-low power consumption. This wireless module can connect with many kinds of measurement sensor, such as temperature, humidity, pressure, level, flow, RTD input, Thermocouples input...It automatically detects the attached measurement sensor. 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

Automatic Ventilation System, Facility Monitoring, Indoor Air Quality Monitor, Warehouse Monitoring, Temperature Monitoring

Notes For Applications

- Reliable & Secured Wireless Connection**
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 from Texas Instruments allow the sensor can last up to 10 years with a single battery AA.
- Exchangeable sensor modules**
Customer can exchange other sensor module at any time like Plug & Play. Selection of many kinds of sensor: temperature, humidity, pressure, level, flow...
- Long range Transmission**
Narrow Band techniques & Sub-GHz technology allow long distance transmission at lowest energy consumption

WIRELESS SENSOR WS433-M12F FITTED WITH PRESSURE SENSOR



WS433-M12F-H2.PNG

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Created date: Dec-21-2022


Updated date: Aug-28-2024


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Specification

Sensor modules support	Compatible with all DULP sensor modules produced by Daviteq. Refer to the sensor table in the first page. List of compatible sensor modules depends on FW version of WS433-M12F(-T). ** DULP (Digital Ultra Low Power)
Sensor port connector	M12-female, 4-pin A-coding
Data speed	Up to 50kbps
Transmission distance, LOS	500m
Antenna	Internal Antenna
Battery	01 x AA 1.5 - 3.6VDC, 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)	< 60g
Box dimension	190x50x50mm
Gross weight	100g

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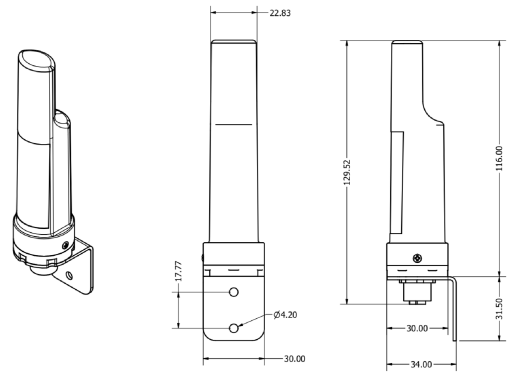
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INSTALL BATTERY IN WS433



WS433-M12F-H3.PNG

DIMENSION DRAWINGS OF WS433-M12F (UNIT: MM)



WS433-M12F-H5.PNG

CARTON BOX OF WIRELESS SENSOR



SIZE: DIA. 50MM X 180MM LENGTH

WS433-M12F-H6.PNG

PRODUCT PACKAGE INCLUDES



WS433-M12F-H7.PNG

RECOMMENDED BATTERIES for WIRELESS SENSOR WS433

E91 AA Alkaline battery



-18 .. + 60 oC working temperature
10-year shelf life
3000 mAh Capacity
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature
20-year shelf life
3500 mAh Capacity
Price: 3.5X

WS433-M12F-H8.PNG

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E91 AA Alkaline battery



-18 .. + 60 oC working temperature
10-year shelf life
3000 mAh Capacity
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature
20-year shelf life
3500 mAh Capacity
Price: 3.5X

WS433-G4-H8.JPG

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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-M12F	Wireless Sensor Transmitter 433MHz, compatible with all DULP sensor modules, AA 1.5VDC battery, IP67
Notes	

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