

WIRELESS AMBIENT TEMPERATURE SENSOR



SKU: WS433-M12F-ATE

TEMPERATURE SENSOR FITTED WITH WS433-M12F

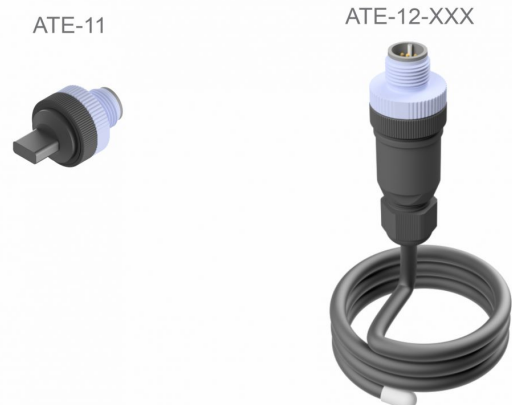


WS433-M12F-ATE-H1.PNG

Wireless Ambient Temperature Sensor is a combination of wireless sensor transmitter WS433-M12F and ambient temperature sensor ATE, it utilizes Digital temperature sensor delivers high accuracy measurement in range -35 to + 70oC. The wireless portion is Sub-GHz technology from Texas Instruments allows long range transmission at ultra-low power consumption. It will connect 2-way wirelessly to the wireless co-ordinator WS433-CL to send data and receiving the configuration. It can be configured the operation parameters like data sending interval, health check cycle...remotely from Globiots platform or via ModbusRTU software (thru the WS433-CL). Its default data rate is 50 kbps, can be switched to 625 bps to increase the communication range. It can last up to 10 years with a single AA battery. There are a lot of applications as environment monitoring for office, warehouse, data center, hospital, agriculture...

- ✓ **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.
- ✓ **HIGH ACCURACY**
Digital sensor with factory-calibration
- ✓ **IP67 WEATHER-PROOF**
IP67 sensor probe allows immersion into ice-water for quick validation

AMBIENT TEMPERATURE SENSORS



-40 .. + 85 oC +/- 0.5 oC Accuracy
IP67 Protection

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1/4

SPECIFICATION

SENSOR SPECIFICATION :	
Sensor	Digital type, factory calibrated, IP67, immersible to ice-water for quick validation
Measuring range	-35 .. + 70°C
Accuracy & Resolution	+/- 0.5°C, 0.125°C
Material	PA plastic with PVC cable
Electrical connection	M12-male connector
WIRELESS SPECIFICATION :	
Data speed	Up to 50kbps
Transmission 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
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°C..+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

RECOMMENDED BATTERIES

E91 AA Alkaline battery

-18 .. + 60 oC working temperature

10-year shelf life

3000 mAh Capacity

Price: 1X

WS433-M12F-ATE-H3.PNG

L91 AA Lithium battery

-40 .. + 60 oC working temperature

20-year shelf life

3500 mAh Capacity

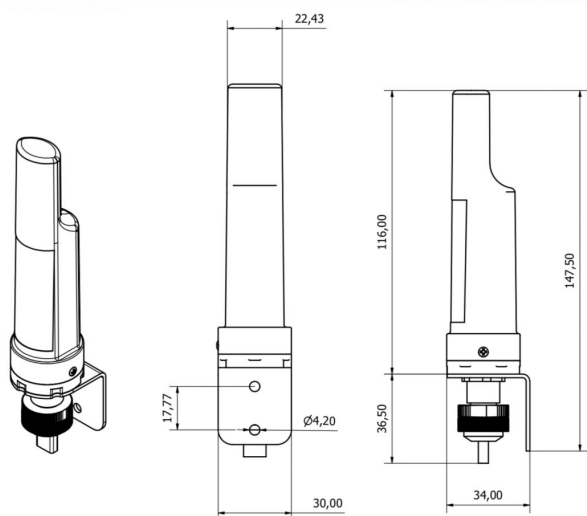
Price: 3.5X

BATTERY INSTALLATION



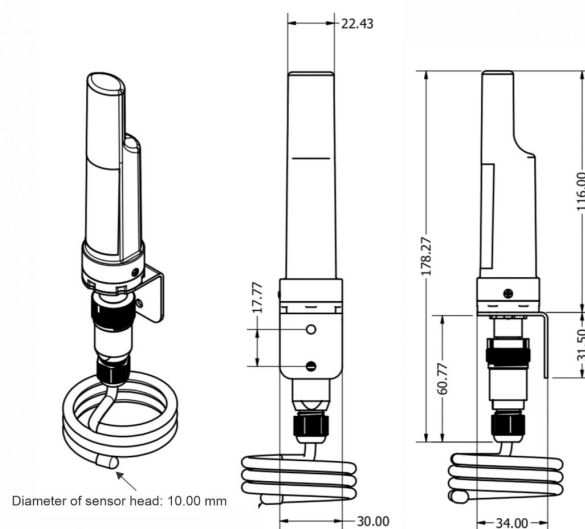
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DIMENSION DRAWINGS OF COMPACT TEMPERATURE SENSOR



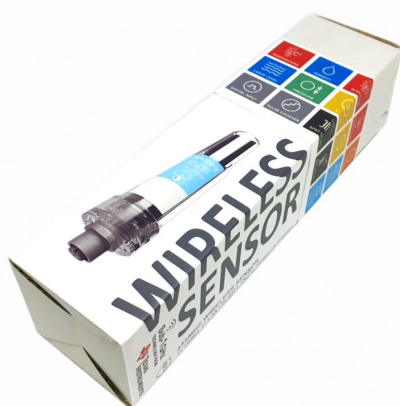
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DIMENSION DRAWINGS OF CABLE TYPE TEMPERATURE SENSOR



WS433-M12F-ATE-H6.PNG

CARTON BOX OF WIRELESS SENSOR



SIZE: 50x50x190MM

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PRODUCT PACKAGE INCLUDES



WS433-M12F-ATE-H8.PNG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WS433-M12F	Wireless Sensor Transmitter 433Mhz, compatible with all DULP sensor modules, AA 1.5VDC battery, IP67
ATE-11	Compact ambient Temperature Sensor DULP module, M12-male connector
ATE-12-300	300mm Cable type ambient Temperature Sensor DULP module, M12-male connector
Notes	* Must order for both wireless transmitter and sensor module