

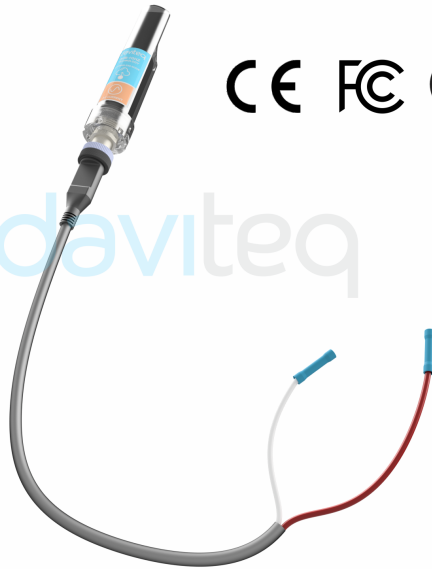
Wireless Sensor AC Current Input



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

SKU: WS433-AC

5A-AC CURRENT INPUT WIRELESS SENSOR WS433-AC



WS433-AC-H1.PNG

Safe Zone

Hazardous Zones

Wireless sensor with 1-channel AC current input 5A to measure the AC current load of your motors, machines... to count the energy consumption, OVER-load or NO-load detection, run hour counting...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.

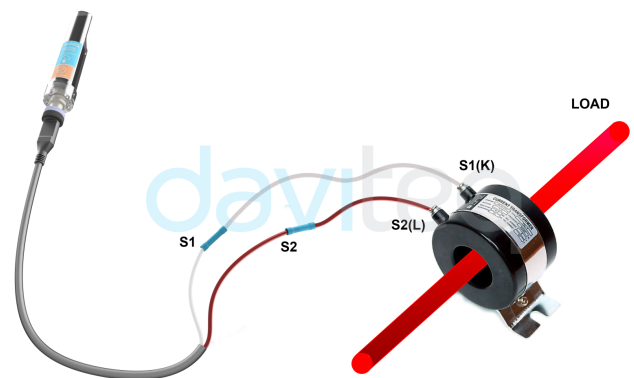
Applications

Condition Based Monitoring, Machine Health Monitoring, Safety Monitoring, Energy Monitoring, Production 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.
- Work with common Current Transformers**
Allows to setup the ratio of current transformer
- Long range Transmission**
Narrow Band techniques & Sub-Ghz technology allow long distance transmissison at lowest energy consumption

WIRELESS SENSOR AC CURRENT INPUT CONNECT WITH CURRENT TRANSFORMER



WS433-AC-H2.PNG

DAVITEQ TECHNOLOGIES INC

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www.iot.daviteq.com

Created date: Dec-21-2022


Updated date: Aug-28-2024


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Specification

Measuring range	0~5A AC
Accuracy	1.0%
Resolution	10 -bit
Temperature Drift	< 100 ppm
Electrical connection	cable 0.5m length with PG9 cable gland and wire crimping connectors for SAFETY
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
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
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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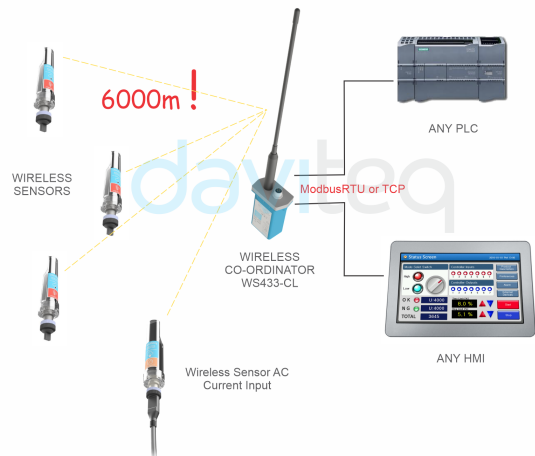
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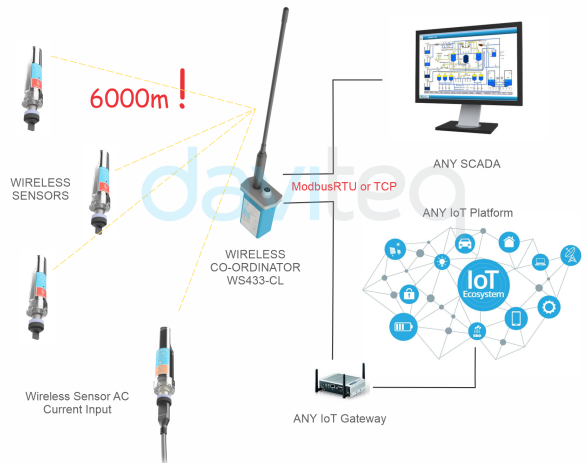
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CONNECT WIRELESS SENSORS TO any PLC or HMI



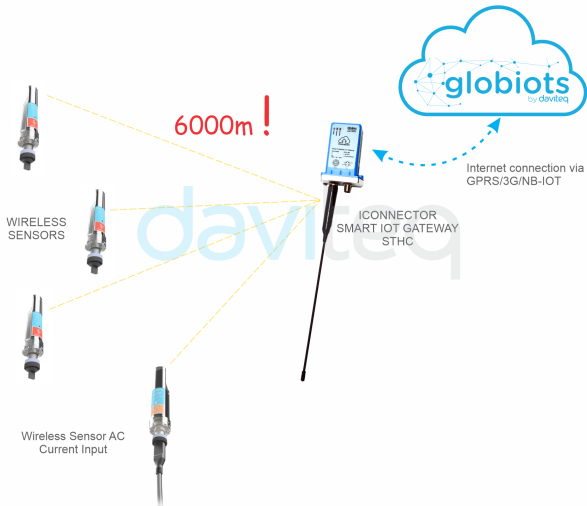
WS433-AC-H3.PNG

CONNECT WIRELESS SENSORS TO any SCADA or IoT Platform



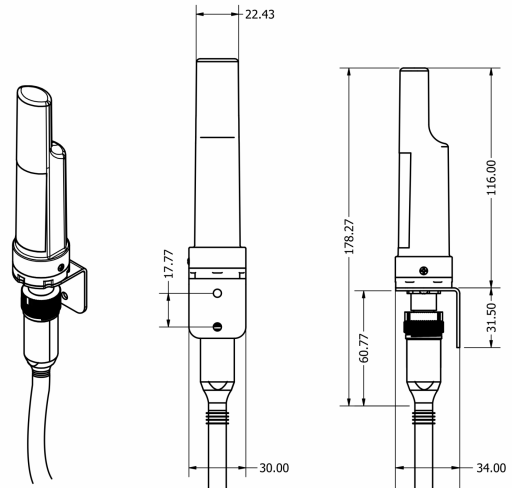
WS433-AC-H4.PNG

CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



WS433-AC-H5.PNG

DIMENSION DRAWINGS OF WS433 SENSOR WITH CABLE OUTPUT



WS433-AC-H6.PNG

CARTON BOX OF WIRELESS SENSOR



SIZE: 50x50x190MM

WS433-AC-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-AC-H8.PNG

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SOIL MOISTURE SENSOR INSTALLATION



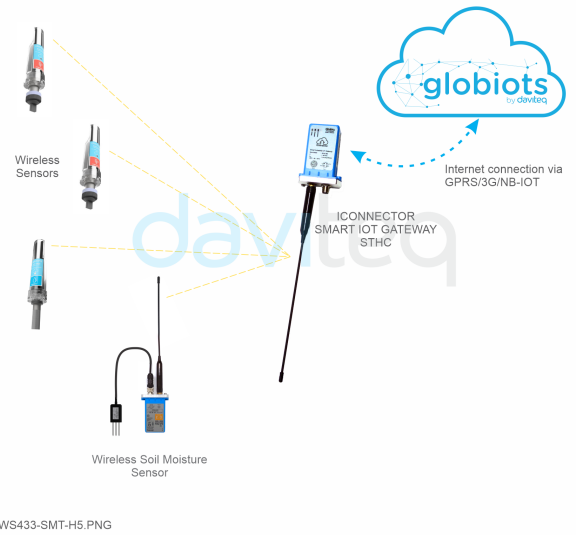
INSTALLATION FOR MULTI-LAYER MEASUREMENT



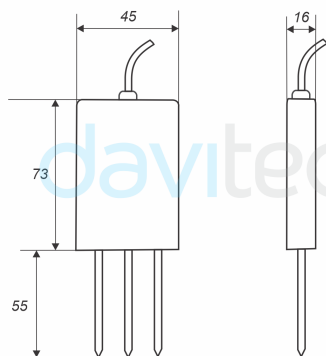
40 WIRELESS SENSORS CONNECT TO ONE CO-ORDINATOR



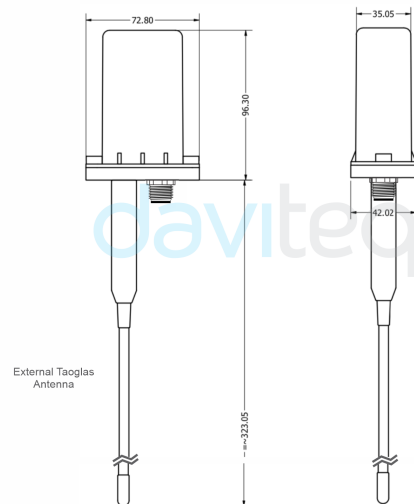
CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



DIMENSION DRAWINGS OF SENSOR (Unit: mm)



DIMENSION DRAWINGS OF WIRELESS SENSOR (Unit: mm)



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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-AC-11	Wireless sensor 1-channel AC current input max 5A, IP67, battery AA 1.5VDC, cable 0.5m length with PG9 cable gland and wire crimping connectors for SAFETY

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