# **Wireless Ambient Light Sensor**

# daviteq

Smart Agriculture, Smart Building, Smart City, Smart Farm, Smart Factory

#### SKU: WS433-AL



WS433-AL-H1.PNG

#### 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 fromTexas Instruments allow the sensor can last up to 10 years with a single battery AA.

#### Pre-calibrated

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

#### IP67

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For both indoor and outdoor applications



Hazardous Zones

WS433-AL is a wireless ambient light sensor, using the most advanced digital technology to bring high accuracy and stable measurement. 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 coordinator 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 50kbps, can be switched to 625bps to increase the communication range. The sensor can last up to 10 years with a single AA battery. And it has many applications such as continuous measurement of ambient brightness to monitor the premises or control lighting in factories, greenhouses, etc.

#### Applications

Facility Monitoring, Safety Monitoring

#### **Notes For Applications**

- Light Intensity Range: Choose a sensor with an intensity range suitable for the application.
- Power Consumption: Evaluate the power requirements of the sensor.
- Mounting Options: Consider the physical form factor and mounting options.
- Integration: Look for sensors that integrate well with your system.

#### WIRELESS AMBIENT LIGHT SENSOR FOR LIGHTING CONTROLS IN SMART FACTORY



WS433-AL-H2.PNG

#### DAVITEQ TECHNOLOGIES INC

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Created date: Dec-21-2022

Updated date: Aug-28-2024



## Specification

SENSOR SPECIFICATION :

Ambient light intensity measurement feature:

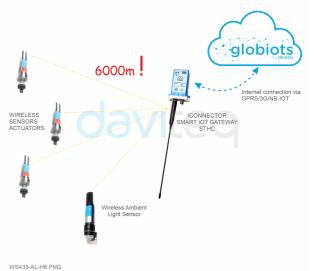
Ambient light intensity measurement reature.	
Unit	Lux
Measurement range	0~83865.6
Linearity	5% when the light is less than 40 lux
Temperature drift	0.01%/°C when light intensity is about 2000 lux
WIRELESS TRANSMITTER SPECIFICATION :	undefined
Data speed	Up to 50kbps
Tranmission distance, LOS	1000m
Antenna	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
International Compliance	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certification	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
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 & weight	160x30x30mm, < 60g (without battery)
Box dimension & gross weight	190x50x50mm, < 90g

#### **Wireless Ambient Light Sensor**

daviteq



ANY PLC ModbusRTU or TCF ESS NATOR WS433-CL ANY HMI Light CONNECT WIRELESS SENSORS TO



#### **RECOMMENDED BATTERIES FOR** WIRELESS SENSOR WS433





L91 AA Lithium battery



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

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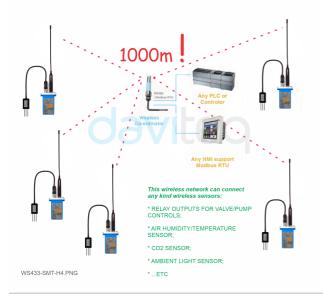
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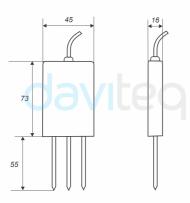
SOIL MOISTURE SENSOR INSTALLATION



40 WIRELESS SENSORS CONNECT TO ONE CO-ORDINATOR



DIMENSION DRAWINGS OF SENSOR (Unit: mm)



WS433-SMT-H6.PNG

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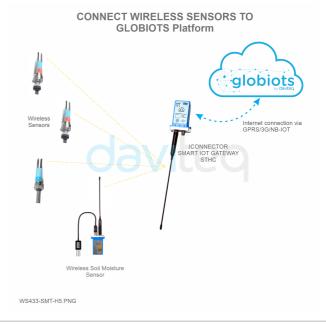
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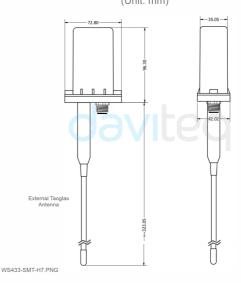
Created date: Dec-21-2022







DIMENSION DRAWINGS OF WIRELESS SENSOR (Unit: mm)





# **Ordering Information**

ITEM CODE	DESCRIPTIONS
WS433-AL-01	Wireless ambient light sensor 433MHz, AA 1.5 - 3.6VDC battery, IP67

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