# **Wireless Integrated Humidity Sensor**



Smart Agriculture, Smart Building, Smart Facility, Smart Farm, Smart Healthcare, Smart Retail Smart Transportation

SKU: WS433-ATH

### WIRELESS INTEGRATED HUMIDITY SENSOR



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.

High accuracy
Digital sensor with factory-calibration

Sintered Filter
Alloy sintered filter to protect sensor in hash environment

Safe Zone

Hazardous Zones

WS433-ATH is the Wireless Integrated Ambient Humidity & Temperature Sensor, it utilises Digital capacitance humidity sensor to deliver 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 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 50kbps, can be switched to 625bps 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...

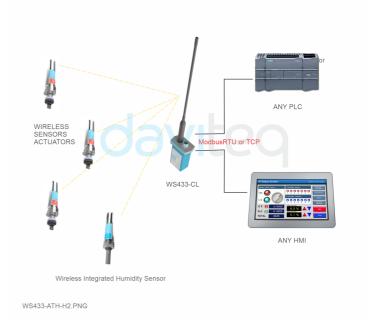
### **Applications**

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

### **Notes For Applications**

- · Accuracy: Determine the required accuracy level.
- Operating Temperature Range: Ensure within your application's temperature range.
- Response Time: Select a sensor with an appropriate response time.
- Size and Power Consumption: Opt for small form factors and low power consumption for portable or battery powered applications.
- Environmental Compatibility: Assess compatibility with the

# CONNECT WIRELESS SENSORS TO any PLC or HMI



### **DAVITEQ TECHNOLOGIES INC**

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- +84.28.6268.2523 / 6268.2524
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# **Specification**

Sensor	Digital type, factory calibrated, output both Humidity and Temperature values
Selisui	
Humidity measuring range and accuracy	0~100% RH, ±3.0% RH (±1.5% RH for ATH-15 version)
Humidity resolution	0.1%
Temperature measuring range and accuracy	-40~85°C, ±0.5°C (±0.1°C for ATH-15 version)
Temperature resolution	0.1°C
Sensor Filter	20μm Alloy sintered filter
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 and weight	160x30x30mm, < 50g (without battery)
Box dimension and gross weight	190x50x50mm, < 90g

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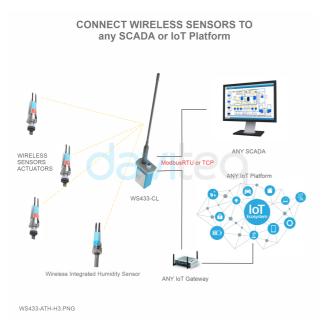
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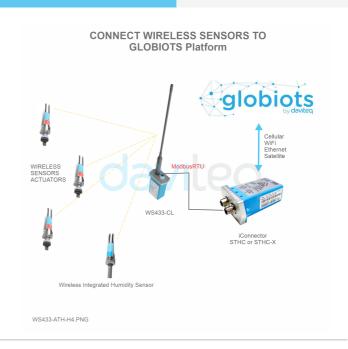
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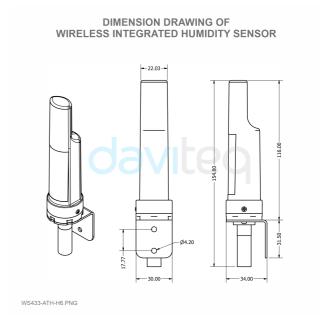
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# CARTON BOX OF WIRELESS SENSOR SIZE: 50x50x190MM







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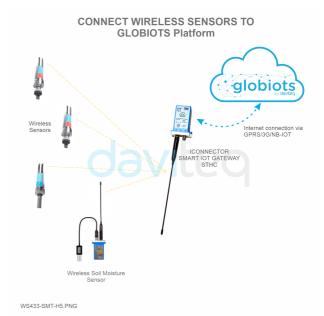
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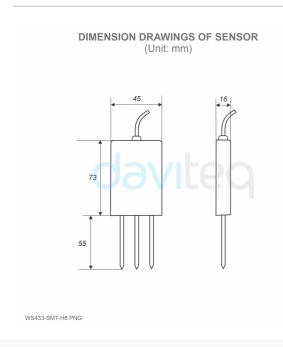


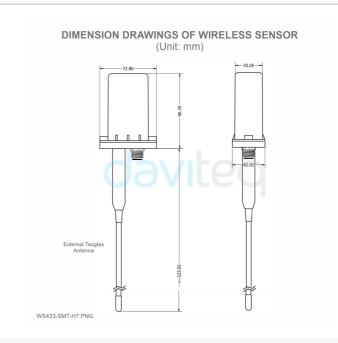




# 1000m Any PLC or Controler Wireless network can connect any kind wireless sensors: RELAY OUTPUTS FOR VALVE/PUMP CONTROLS; All HUMIDITY/TEMPERATURE SENSOR; CO2 SENSOR; AMBIENT LIGHT SENSOR; ...ETC







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## **Ordering Information**

ITEM CODE	DESCRIPTIONS
WS433-ATH-11	Wireless Sub-GHz integrated ambient humidity and temperature sensor, Standard compact sensor, 3% RH acc.
WS433-ATH-15	Wireless Sub-GHz integrated ambient humidity and temperature sensor, Advanced compact sensor, 1.5% RH acc.

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