

Wireless Thermocouple Temperature Sensor



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

SKU: WS433-TCT

WIRELESS THERMOCOUPLE TEMPERATURE SENSOR WS433-TCT



WS433-TCT-H1.JPG

Safe Zone

Hazardous Zones

WS433-AG is LoRaWAN wireless sensor with modular design connected to Thermocouple temperature sensor, based on 10-year experience in design and manufacturing Industrial sensor of Daviteq Company. It has been factory pre-calibrated for high accuracy and quick set-up. 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 1 x AA battery.

Typical Applications: Temperature monitoring for factories, agriculture, boilers,...

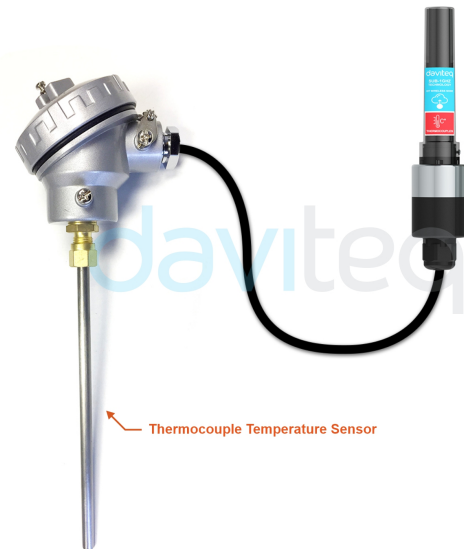
Applications

Temperature Monitoring, Process Monitoring, Safety Monitoring

Notes For Applications

- Reliable & Secured Wireless Connection**
Sub-GHz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128
- Ultra-low power with 5 years battery**
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology from Texas Instruments allow the sensor can last up to 5 years
- Pre-calibrated**
Sensors are pre-calibrated at factory to deliver high accuracy and quick installation
- IP67**
For both indoor and outdoor applications

CONNECT WITH THERMOCOUPLE TEMPERATURE SENSOR



WS433-TCT-H2.JPG

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Created date: Dec-21-2022


Updated date: Aug-28-2024


1/4


Specification

Input	Thermocouple Temperature Sensor
Accuracy	0.05%
Sensor port connector	PG13.5 Connector
COMMUNICATION	
Data speed	Up to 50kbps
Transmission distance, LOS	LOS 500m
Antenna	Internal Antenna, 3 dbi
Battery	01 x AA 1.5-3.6VDC, up to 10 years operation, depends on the 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/Protection	Poly-carbonate, IP67
Mounting method	Mounting bracket for wall mount
Dimension	194x41x41mm
Net weight	< 200g

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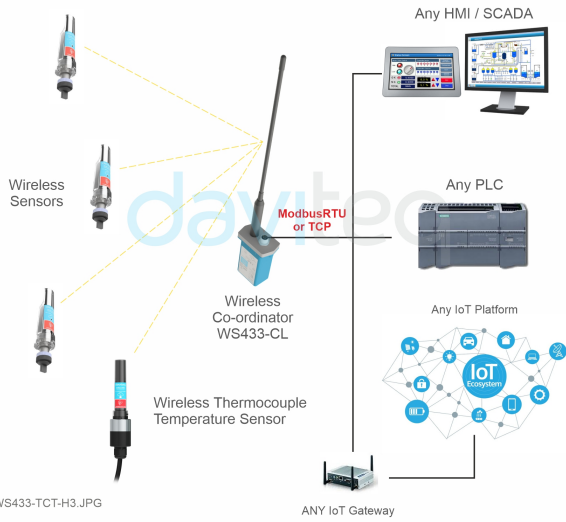
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2/4

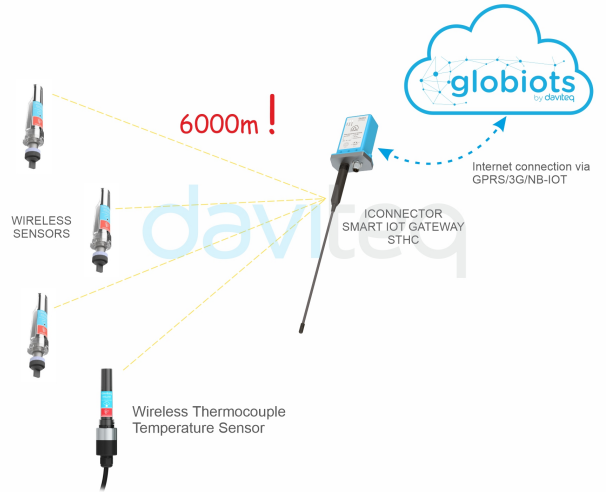
CONNECT WIRELESS SENSORS TO any PLC, HMI, SCADA or IoT Platform



WS433-TCT-H3.JPG

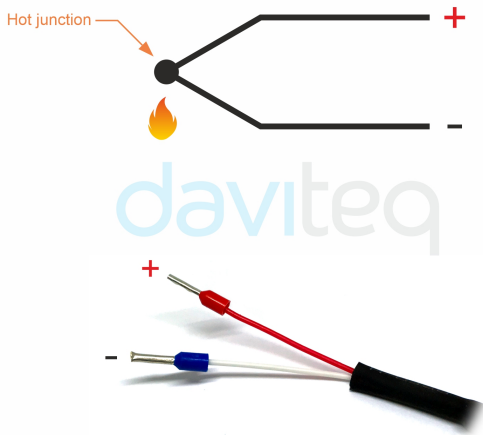
ANY IoT Gateway

CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



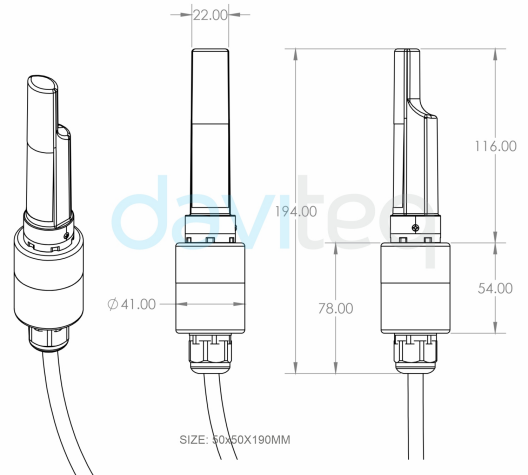
WS433-TCT-H4.JPG

WIRING THE THERMOCOUPLE TEMPERATURE SENSOR



WS433-TCT-H5.JPG

DIMENSION DRAWINGS OF WS433 SENSOR WITH CABLE OUTPUT



WS433-TCT-H6.JPG

CARTON BOX OF WIRELESS SENSOR



WS433-TCT-H7.JPG

RECOMMENDED BATTERIES

E91 AA Alkaline battery

L91 AA Lithium battery



-18 .. + 60 oC working temperature

-40 .. + 60 oC working temperature

10-year shelf life

20-year shelf life

3000 mAh Capacity

3500 mAh Capacity

Price: 1X

Price: 3.5X

WS433-TCT-H8.JPG

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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-TCT-01	Wireless Thermocouple Temperature Sensor, 433MHz, Type AA battery 1.5VDC, IP67

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4/4