WIRELESS PT100 TEMPERATURE SENSOR

daviteq

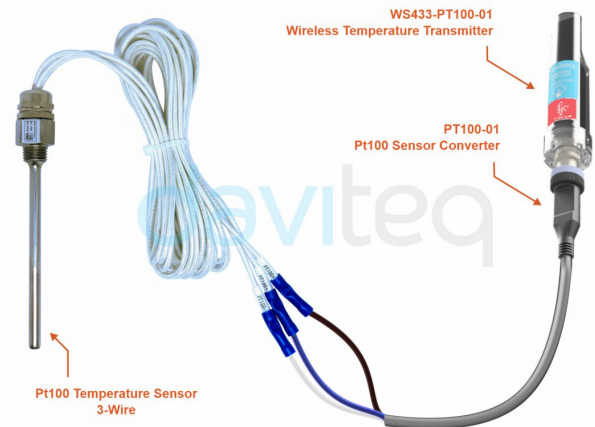**WIRELESS PT100 TEMPERATURE SENSOR WS433-PT100**

WS433-PT100-H1.PNG

Wireless Pt100 Temperature Sensor WS433-Pt100 is wireless sensor with modular design connected to PT100 temperature sensor via Pt100 sensor converter cable with M12 connector, it utilizes Digital temperature sensor delivers high accuracy measurement in range 0°C to +100°C. The wireless transmitter 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 factories, agriculture, boilers, ...

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

IP67 WEATHER-PROOF
Wireless transmitter with IP67 design for for both Indoor and Outdoor applications

CONNECT WITH PT100 TEMPERATURE SENSOR

WS433-PT100-01
Wireless Temperature Transmitter

PT100-01
Pt100 Sensor Converter

Pt100 Temperature Sensor
3-Wire

WS433-PT100-H2.PNG

SPECIFICATION

Input	PT100 Temperature Sensor
Accuracy	0.05%
Sensor port connector	M12-Female Connector
Accessories	Pt100 sensor converter cable 0.5m length with M12-Male connector (not include)
Data speed	Up to 50kbps
Tranmission 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	-40oC..+60oC (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

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

WS433-PT100-H3.PNG
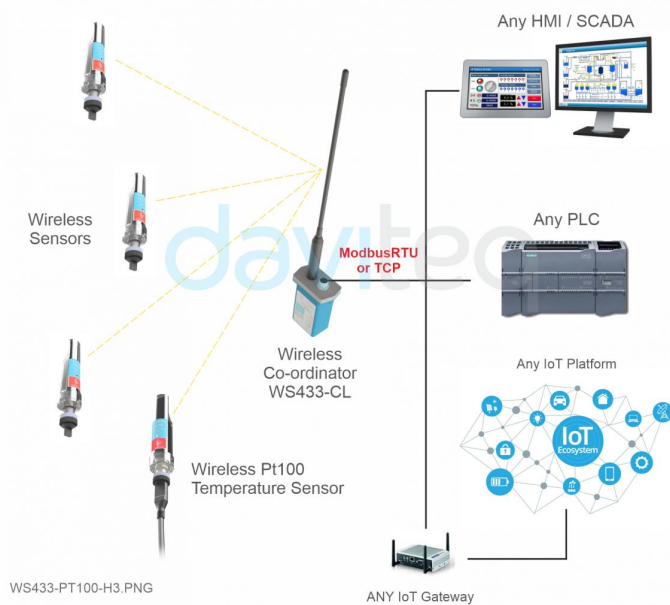
CONNECT WIRELESS SENSORS TO GLOBIOTS Platform

WS433-PT100-H4.PNG
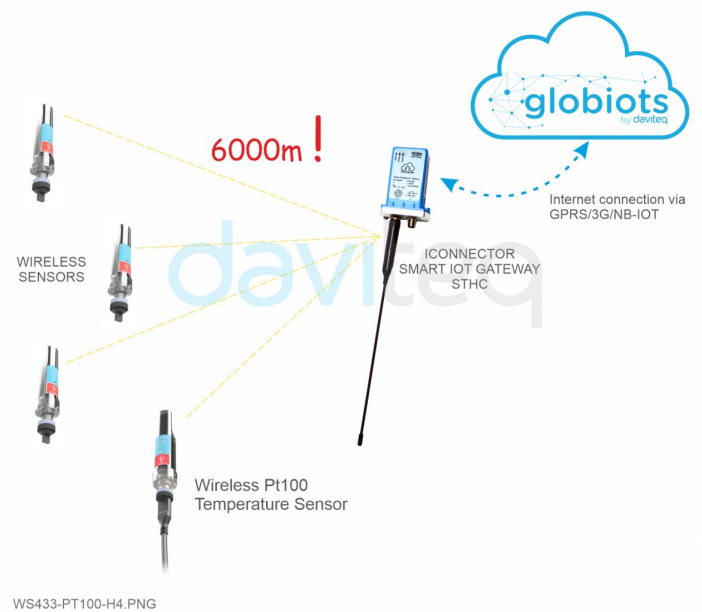
DAVITEQ TECHNOLOGIES INC
No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam
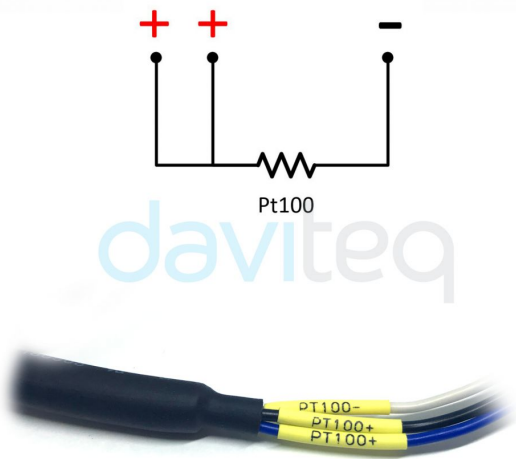+84.28.6268.2523 / 6268.2524
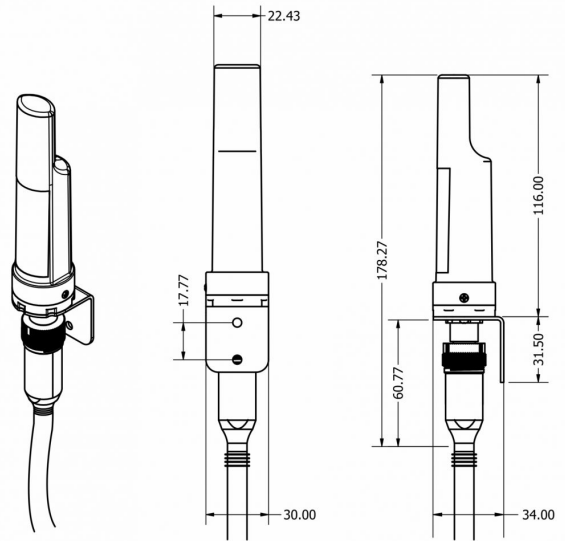info@daviteq.com   **www.daviteq.com**   JAN-2021 | Doc No: WS433-PT100-DS-EN-10   2/4

WIRING THE PT100 TEMPERATURE SENSOR
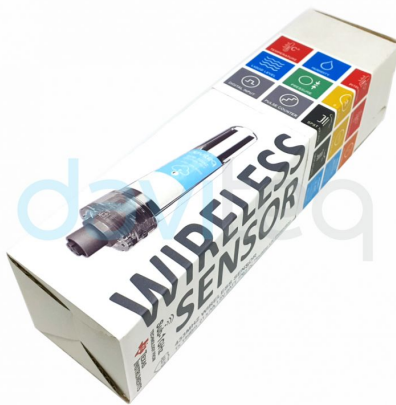

WS433-PT100-H5.PNG

DIMENSION DRAWINGS OF WS433 SENSOR WITH CABLE OUTPUT

WS433-PT100-H6.PNG

CARTON BOX OF WIRELESS SENSOR

SIZE: 50x50X190MM

WS433-PT100-H7.PNG

RECOMMENDED BATTERIES

E91 AA Alkaline battery

L91 AA Lithium battery

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-PT100-H8.PNG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WS433-PT100-01	Wireless PT100 Temperature Sensor 433Mhz, Internal antenna, Type AA battery 1.5VDC, IP67
ACCESSORIES	
PT100-01	Pt100 Sensor Converter 0.5m length with M12-Male connector
Notes	* Purchase Pt100 Sensor Converter to connect Pt100 with Wireless Sensor