WIRELESS 3-AXIS TILT SENSOR

daviteq

SKU: WS433-AG



WS433-AG is a wireless Tilt Sensor, can be used to measure 3 tilt angles X, Y, Z of any object as Tower, Building, Tree, Electricity Tower, Telecom Tower, Bridges... The Tilt sensor utilizes the combination of advanced Accelerometer and Gyro meter to deliver high accuracy and stable measurement of Tilt angle of 03 axis X,Y,Z. 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. The sensor can last up to 10 years with 1 x AA battery. Typical Applications: Telecommunication Tower, Electricity Tower, Building, ...

WS433-AG-H1.PNG

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 Ultralow power wireless technology from Texas Instruments allow the sensor can last up to 5 years

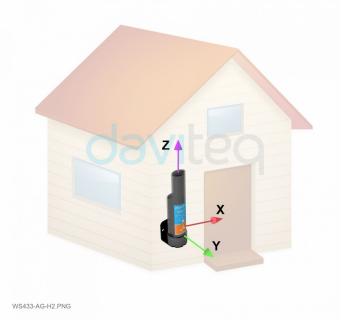
HIGH ACCURACY & STABLE

Advanced Accelerometer with Gyro meter to deliver high accuracy and stable measurement of Tilt angle of 03 axis X,Y,Z;

IP67

For both indoor and outdoor applications

TILT SENSOR INSTALLED ON THE WALL



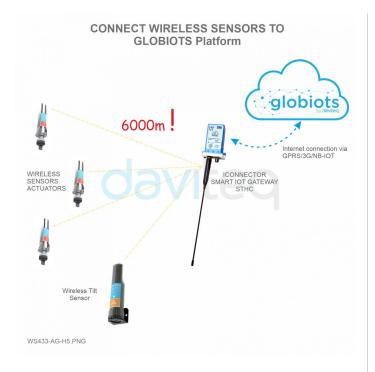
SPECIFICATION

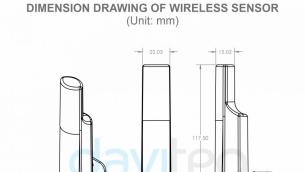
SENSOR SPECIFICATION	
Tilt Sensor	Built-in advanced accelerometer and gyro meter to deliver tilt angle measurement of X, Y, Z
Measurement range	± 90° of XYZ
Repeatibility	± 0.25°
Sensor sampling rate	1Hz max
WIRELESS SPECIFICATION	
Data speed	Up to 50kbps
Transmission distance, LOS	LOS 500m
Antenna	Internal 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°C+60°C (with AA L91 Energizer)
Housing/Protection	Poly-carbonate, IP67
Mounting method	Mounting bracket for wall mount
Dimension	125x30x30mm
Net weight	60g

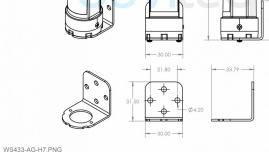
TILT SENSOR INSTALLED ON THE TREE

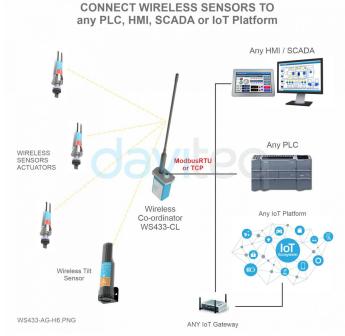












RECOMMENDED BATTERIES



WS433-AG-H8.PNG

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

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WS433-AG-01	WIRELESS 3-AXIS TILT SENSOR 433MHZ, AA 1.5-3.6VDC BATTERY, IP67