Wireless Room Differential Pressure Sensor



SKU: WS433-ADP



Safe Zone



Hazardous Zones

CLEAN ROOM DIFFERENTIAL PRESSURE WIRELESS SENSOR

Wireless Room Differential Pressure Sensor utilizes the advanced Piezo technology from Germany allows high accuracy, stable and ultralow power consumption.









Applications

Automatic Ventilation System, Indoor Air Quality Monitor, Flow Monitoring, Safety Monitoring

Notes For Applications

WS433-ADP-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 from Texas Instruments allow the sensor can last up to 10 years with a single battery AA.

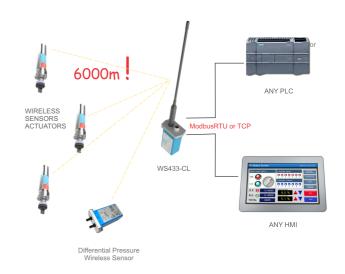
High accuracy

3% of reading, drift is only 0.05 Pa/year

Environment Protection

REACH & RoHS compliance

CONNECT WIRELESS SENSORS TO any PLC or HMI



WS433-ADP-H2.PNG

DAVITEQ TECHNOLOGIES INC

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www.iot.daviteq.com

Created date: Dec-21-2022 Updated date: Aug-28-2024



Specification

SENSOR SPECIFICATION :	
Sensing Technology	Advanced CMOS technology from Germany
Measuring range & accuracy	-125Pa~125Pa, 3% reading
Zero accuracy & repeatibility	0.08Pa, 0.04Pa
Temperature drift & Offset stability	$< 0.5\%$ reading per 10° C, < 0.05 Pa/ year
Measureable Gases	AIR, O ₂ , N ₂ (No condensation)
Working temperature	-20~85°C
Wetted parts	PBT, glass (silicon nitride, silicon oxide), silicon, gold, FR4, silicone as static sealing, epoxy, copper alloy, lead-free solder
Process connection	gas tube 6x4mm
WIRELESS TRANSMITTER SPECIFICATION:	
Data speed	Up to 50kbps
Tranmission distance, LOS	1000m
Antenna	Internal Antenna
Battery	$01\mathrm{x}$ 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	Aluminum & Poly-carbonate, IP67
Installation method	wall mount bracket SUS304
Product dimensions & weight	H106xW73xD42, < 190g (without battery)

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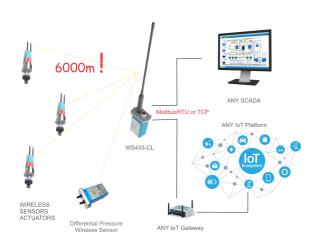
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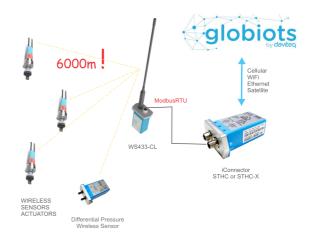


CONNECT WIRELESS SENSORS TO any SCADA or IoT Platform



WS433-ADP-H3.PNG

CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



WS433-ADP-H4.PNG

RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature 10-year shelf life 3000 mAH Capacity Price: 1X

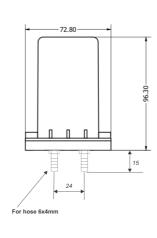
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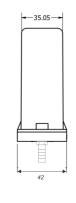
L91 AA Lithium battery



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

DIMENSION DRAWING WS433-ADP





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CARTON BOX OF WIRELESS SENSOR



RECOMMENDED BATTERIES FOR **WIRELESS SENSOR WS433** 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-AC-H8.PNG

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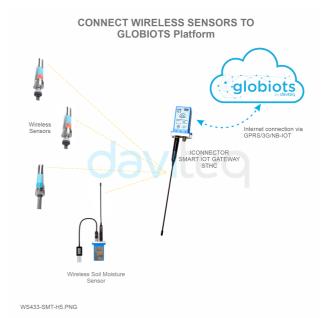
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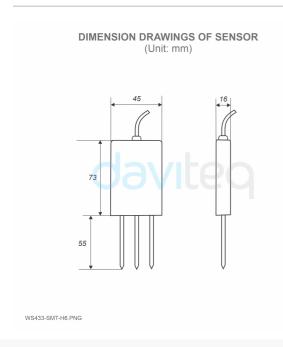


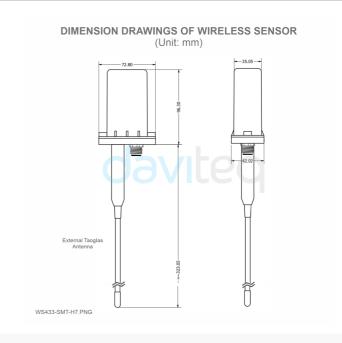




Any PLC or Controler This wireless network can connect any kind wireless sensors: RELAY OUTPUTS FOR VALVE/PUMP CONTROLS; AIR HUMIDITY/TEMPERATURE SENSOR; CO2 SENSOR; AMBIENT LIGHT SENSOR; ...ETC







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Ordering Information

ITEM CODE	DESCRIPTIONS
WS433-ADP-21	Wireless Room Differential Pressure Sensor, ±125 Pa, Acc 3.0% of reading value, IP67, battery AA 1.5-3.6VDC

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