

WIRELESS ROOM DIFFERENTIAL PRESSURE SENSOR



SKU: WS433-ADP

CLEAN ROOM DIFFERENTIAL PRESSURE WIRELESS SENSOR



WS433-ADP-H1.PNG

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

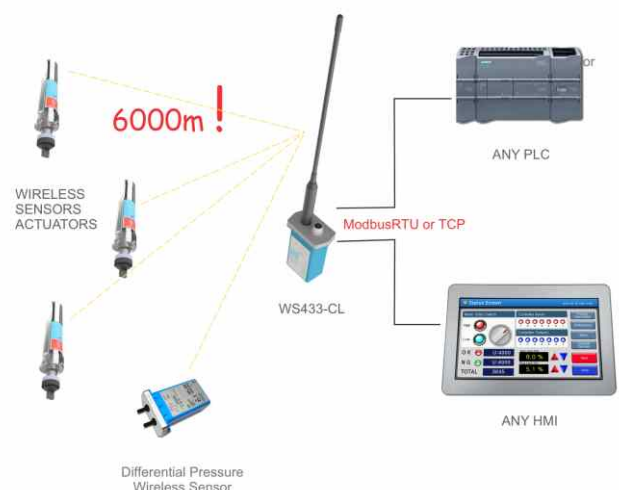
- ✓ **RELIABLE & SECURED WIRELESS CONNECTION**
Sub-Ghz technology from Texas Instruments allows reliable wireless connection and secured data by AES-128

- ✓ **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

DAI VIET CONTROLS & INSTRUMENTATION COMPANY LTD.

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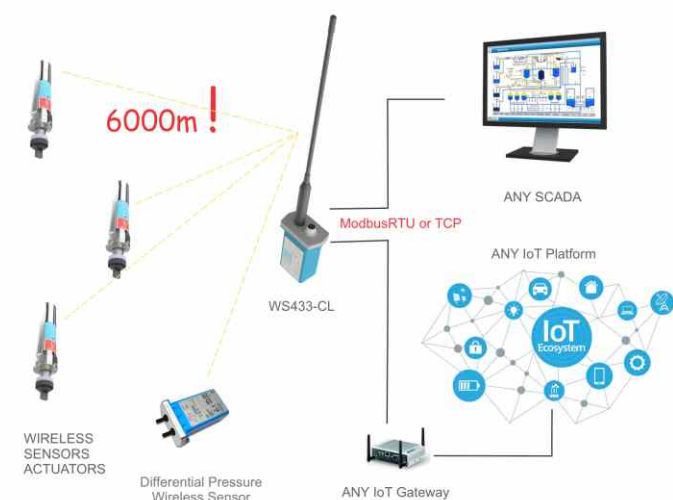
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SEP-2019 | Doc No. WS433-ADP-DS-EN-01

SPECIFICATION

SENSOR SPECIFICATION :	
Sensing Technology	Advanced CMOS technology from Germany
Measuring range & accuracy	-125Pa .. + 125Pa, 3% reading
Zero accuracy & repeatability	0.08 Pa, 0.04 Pa
Temperature drift & Offset stability	< 0.5% reading per 10 oC, < 0.05 Pa/year
Measureable Gases	AIR, O2, N2 (No condensation)
Working temperature	-20 .. + 85 oC
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
Transmission 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	-40oC..+60oC (with AA L91 Energizer)
Housing	Aluminum & Poly-carbonate, IP67
Installation method	Wall mount bracket SUS304
Product dimensions & weight	H106xW73xD42, < 190 grams (without battery)

CONNECT WIRELESS SENSORS TO
any SCADA or IoT Platform

WS433-ADP-H3.PNG

CONNECT WIRELESS SENSORS TO
GLOBIOTS Platform

WS433-ADP-H4.PNG

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RECOMMENDED BATTERIES

E91 AA Alkaline battery

-18 .. + 60 oC working temperature

10-year shelf life

3000 mAh Capacity

Price: 1X

WS433-ADP-H5.PNG

L91 AA Lithium battery

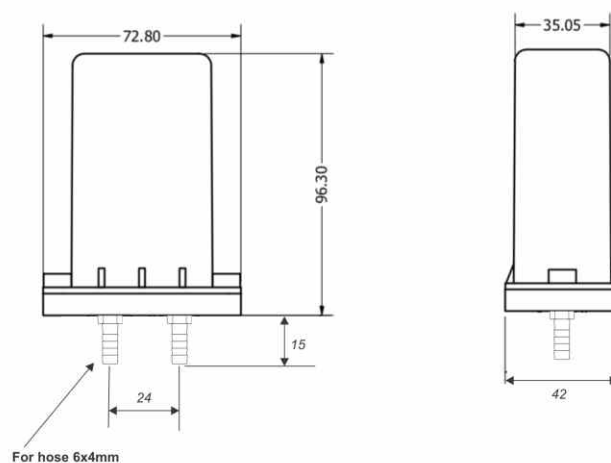
-40 .. + 60 oC working temperature

20-year shelf life

3500 mAh Capacity

Price: 3.5X

WS433-ADP-H6.PNG

DIMENSION DRAWING
WS433-ADP

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