

SUB-GHZ GAS DETECTING SENSOR WS433-G4

daviteq

SKU: WS433-G4

WIRELESS GAS SENSOR
WS433-G4

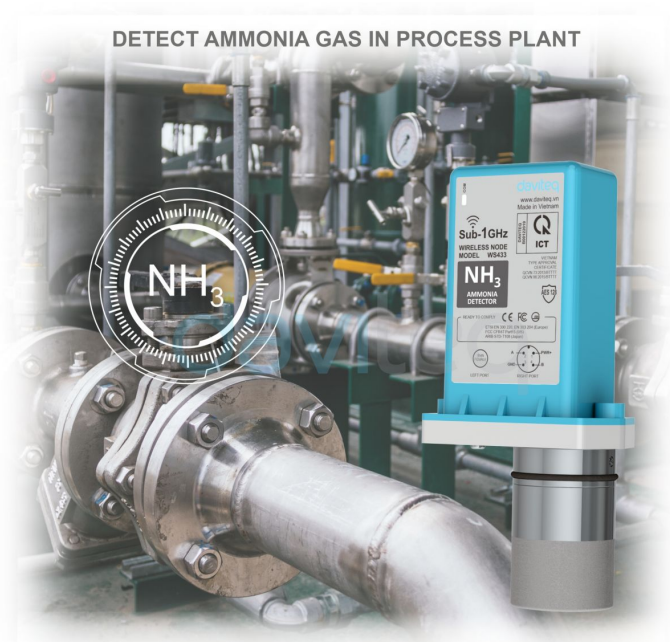


WS433-G4-H1.JPG

WS433-G4 is a Sub-GHz electrochemical-type gas sensor with a high sensitivity to low concentrations of detected gas, high selectivity, and a stable baseline. The device supports different types of gas such as CO, NO, NO₂, H₂S, NH₃, O₂, O₃, SO₂, Cl₂, and HCHO... Ultra-low Power design and smart firmware allow the sensor to last up to 5 years with a 02 x AA-type battery (depending on configuration). The sensor will transmit data at a hundred meters distance to the Wireless Coordinator WS433-CL. The coordinator will give output RS485 modbusRTU to any SCADA or DCS system.

Typical Applications: Gas, toxic gas detecting, air quality monitoring for facility, building, pump station, HVAC...

- ✓ **SUB-GHZ TECHNOLOGY**
High performance Sub-GHz wireless technology from TI
- ✓ **ULTRA-LOW POWER WITH 5 YEARS BATTERY**
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 5 years with 02 x AA batteries
- ✓ **HIGH ACCURACY & STABLE**
Advanced electrochemical-type gas sensor technology processing to deliver high accuracy and stable measurement
- ✓ **MULTIPLE CHOICES OF GAS**
Select CO, NO, NO₂, H₂S, NH₃, O₂, O₃, SO₂, Cl₂, HCHO...



WS433-G4-H2.JPG

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

MAR-2023 | Doc No: WS433-G4-DS-EN-10

SPECIFICATION

SENSOR SPECIFICATION	
Gas sensor type and specification	List of compatible gas sensors and specification
Sensor housing / Rating	SS316/SS304 housing with 316SS sintered filter / for Indoor use (buy the optional accessory rain-guard for outdoor installation)
SUB-GHZ TRANSMITTER	
Technology	Sub-GHz, ISM 433MHz
Antenna	Internal Antenna
Battery	02 x AA Energizer L91, life time up to 5-10 years (depending on configuration). Batteries are not included.
Frequency band and Power	433-434Mhz, +10 dBm
Configuration	via Downlink
Data transmission mode	internal or alarms occur
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Vietnam Type Approval Certificate	QCVN 73:2013/BTTTT, QCVN 96:2015/BTTTT (DAVITEQ B00122019)
Working temperature	-40oC..+60oC (with AA L91 Energizer)
Housing/Protection	Aluminum + Polycarbonate / IP67
Dimension / Net weight	H180xW73xD42 / < 400 grams

MONITORING CARBON DIOXIDE IN THE AIR



WS433-G4-H3.JPG

GAS SENSOR WITH RAIN GUARD FOR OUTDOOR INSTALLATION



WS433-G4-H4.JPG

CONNECT WIRELESS SENSORS TO any PLC or HMI



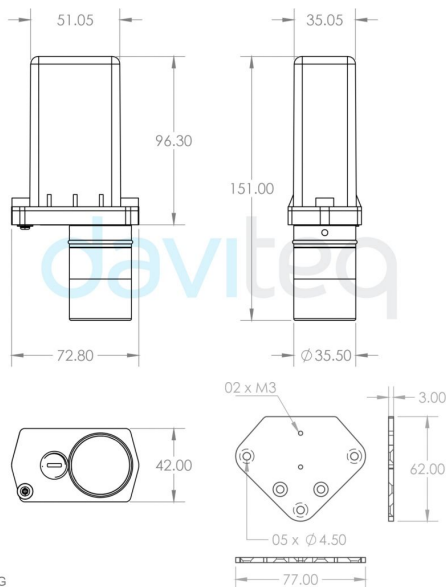
WS433-G4-H5.JPG

CONNECT WIRELESS SENSORS TO GLOBIOTS Platform



WS433-G4-H6.JPG

DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



WS433-G4-H7.JPG

RECOMMENDED BATTERIES

E91 AA Alkaline battery



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

L91 AA Lithium battery



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

WS433-G4-H8.JPG

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WS433-G4-CO-200-01	Wireless Sub-GHz Gas Detecting Sensor, Carbon Monoxide Gas CO, 0-200PPM
WS433-G4-H2S-50-01	Wireless Sub-GHz Gas Detecting Sensor, Hydrogen Sulfide Gas H2S, 0-50PPM
WS433-G4-NH3-100-01	Wireless Sub-GHz Gas Detecting Sensor, Ammonia Gas NH3, 0-100PPM
WS433-G4-Cl2-20-01	Wireless Sub-GHz Gas Detecting Sensor, Chlorine Gas Cl2, 0-20PPM
Accessories and optional items	
ACC-G4-RAINGUARD-01	Rain guard for G4 Gas Sensor
CALGAS-CL2-02	02-point Calibration Services for Chlorine Gas Cl2
CALGAS-CO-02	02-point Calibration Services for Carbon Monoxide Gas CO
CALGAS-H2S-02	02-point Calibration Services for Hydrogen Sulfide Gas H2S
CALGAS-NH3-02	02-point Calibration Services for Ammonia Gas NH3