

SIGFOX CO2 SENSOR



SKU: WSSFC-CO2



**SIGFOX CO2 SENSOR
WSSFC-CO2**



WSSFC-CO2-H1.JPEG

WSSFC-CO2 is a Sigfox sensor utilizes CMOSens® Technology for IR detection enables carbon dioxide measurements of the highest accuracy at a competitive price. Along with the NDIR measurement technology for detecting CO2 comes a best-in-class humidity and temperature sensor integrated on the same sensor module. Ambient humidity and temperature can be measured by special algorithm expertise through modelling and compensating of external heat sources without the need of any additional components. With Ultra-low power design and smart firmware allow the complete Wireless and Sensor package run on 2 x AA battery 1.5V for 2-5 years with 15 minutes update. It can support the following regions RC1, RC2, & RC4.

Typical Applications: Indoor Air Quality monitoring, HVAC Control, Green house, Smart Agriculture,...



SIGFOX READY

Device are best operating performance on the SIGFOX network



ULTRA-LOW POWER WITH 5 YEARS BATTERY

Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can operated up to 5 years with 02 x AA batteries



HIGH ACCURACY & STABLE

Advanced ultrasonic sensor with NDIR CO2 sensor technology processing to deliver high accuracy and stable measurement



MEASURE OTHER PARAMETERS

Integrated temperature and humidity sensor to monitor the ambient environment

DETECT CO2 GAS IN HVAC SYSTEM



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SPECIFICATION

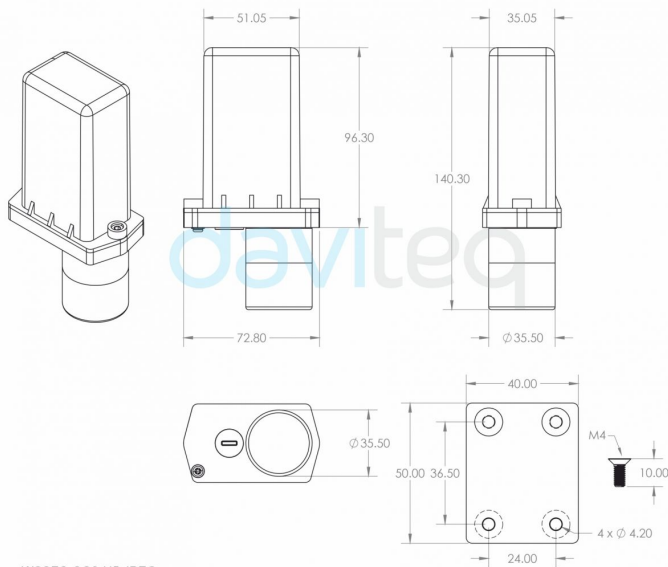
SENSORS SPECIFICATION:	
CO2 Sensor technology	NDIR sensor
CO2 range/resolution/accuracy	0-40.000 ppm / 1ppm / (+/- 30ppm + 3% reading)
Repeatability	+/- 10ppm
Temperature Stability	+/- 2.5ppm / °C in range 0-50°C
Temperature range/resolution/accuracy	-40..+70°C / 0.1°C / ± 0.5 °C in range 0-50 °C
Humidity range/resolution/accuracy	0-100%RH / 0.1%RH / +/- 3.0%RH in range 25-100% RH
Sensor Filter	316SS sintered filter
Sensor housing material / Rating	SS316 / SS304 / for Indoor use
Sigfox SPECIFICATION:	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Antenna	Internal Antenna 2dbi
Battery	02 x AA Type 1.5VDC, working time up to 10 years (depends on configuration)
RF Module complies to	CE, FCC, ARIB
Working temperature	-40°C..+60°C (using Energizer Lithium Ultimate AA battery)
Housing/Protection	Aluminum + Polycarbonate / IP67
Dimension	H180xW73xD42
Net weight	< 400 grams



SYSTEM ARCHITECTURE



DIMENSION DRAWING OF WIRELESS SENSOR (Unit: mm)



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RECOMMENDED BATTERIES

E91 AA Alkaline battery



-18 .. + 60 oC working temperature

10-year shelf life

3000 mAh Capacity

Price: 1X

WSSFC-CO2-H6.JPEG

L91 AA Lithium battery



-40 .. + 60 oC working temperature

20-year shelf life

3500 mAh Capacity

Price: 3.5X

ORDERING INFORMATION

ITEM CODE	DESCRIPTIONS
WSSFC-CO2-9-01	WIRELESS CARBON DIOXIDE GAS SENSOR, 0-40.000PPM, Internal antenna, Type AA battery 1.5VDC, IP67, RC2-RC3-RC4-RC5 zones
WSSFC-CO2-8-01	WIRELESS CARBON DIOXIDE GAS SENSOR, 0-40.000PPM, Internal antenna, Type AA battery 1.5VDC, IP67, RC1-RC6-RC7 zones