

# CO<sub>2</sub> SENSOR



aranet



- ① measures carbon dioxide levels indoors
- ② up to 3km / 1.9mi range
- ③ up to 2 years of battery life
- ④ flexibility of installation

for process control and air quality monitoring  
anywhere where high levels of CO<sub>2</sub> are produced.

Aranet CO<sub>2</sub> non-dispersive infrared sensors measure carbon dioxide (CO<sub>2</sub>) levels.

Aranet CO <sub>2</sub> sensor Datasheet	
Measurements	Carbon dioxide (CO <sub>2</sub> )
Line of Sight Range	3km / 1.9mi
Operating environment	Indoor use
Transmitter power	14 dBm
Frequency	Depends on base station instructions
Measurement Range	0 – 9999 ppm
Carbon dioxide (CO <sub>2</sub> ) measurement accuracy	0-2000 ppm ±50 ppm or 3% of reading 2001-9999 ppm ±10% of reading
Data Transmission	1, 2, 5, 10 minutes**
Data Protection	Data encryption
Power options	2 AAA Alkaline batteries (Zn/MnO <sub>2</sub> ) 2 AAA Lithium batteries (Li/FeS <sub>2</sub> )
Battery life @20°C / 68°F	Up to 2 years with Alkaline batteries Up to 2 years with Lithium batteries
Operating temperature	0°C to 50°C / 32°F to 122°F
Operating humidity	0% to 85% non-condensing*
Dimensions	115x44x25mm / 4.5"×1.7"×1"
Weight	67g / 2.4oz with Alkaline batteries 59g / 2oz with Lithium batteries
Construction	ASA Plastic
Protection class	IP40
Marking	CE, FCC, IC
Compatible base stations	Aranet PRO and Aranet MINI
Included	2 AAA Alkaline batteries, string

\* For best accuracy, recommended operating range is 0% to 60% RH (non-condensing) and 10°C to 40°C (50°F to 104°F). Prolonged operation beyond these ranges may result in a shift of sensor reading, with slow recovery time.

\*\* 1, 2, 5, 10 min interval supported from Aranet PRO v1.3.2 and Aranet MINI v3.20.

**The sensor employs auto-calibration and therefore needs to be exposed to fresh air (around 400ppm CO<sub>2</sub>, i.e. outside air or an unoccupied room) at least once a week for a period of at least 20 minutes to avoid measurement drift.**

#### Terms of use

The Customer is obliged to guarantee the usage, maintenance and preservation of the Equipment at their own expense in a way that excludes the Equipment's theft, loss, destruction, harming and/or damaging (including as a result of mechanical damages, moisture, liquid related damages, lightning and/or other similar events). Sensors are made to be placed vertically (with the ventilation opening facing down) thus being resistive to humidity.