

CO₂ SENSOR



aranet



- ① measures carbon dioxide level
- ② manual or automatic calibration
- ③ up to 3km / 1.9mi range
- ④ up to 7 years of battery life

monitoring of carbon dioxide is necessary for many industrial processes in manufacturing plants, greenhouses, storage tanks and anywhere high levels of CO₂ are generated.

Aranet CO₂ sensor

Measurements	CO ₂ (carbon dioxide)
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
Measurement resolution	1 ppm
Measurement accuracy*	0-2000 ppm ±50 ppm or 3% of reading 2001-9999 ppm ±10% of reading
CO ₂ measurement calibration	Automatic or manual (at 400ppm)
Measurement interval	1, 2, 5, 10 minutes
Data Protection	Data encryption
Power options	2 AAA Alkaline batteries (Zn/MnO ₂) 2 AAA Lithium batteries (Li/FeS ₂)
Battery life @20°C / 68°F	Up to 5 years with Alkaline batteries Up to 7 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
Compatible base stations	Aranet PRO (from v1.3.2), Aranet MINI (from v3.20)
Included	2 AAA Alkaline batteries, string
Part number	TDSPC004 (EU), TDSPC0U4 (NA), TDSPC0R4 (RU)

* The sensor is calibrated at the factory and by default set to a manual calibration mode. If required, initiate the CO₂ calibration by pressing the red button located at the front of sensor for at least 3 seconds.

Automatic / Manual calibration:

Open the lid of sensor compartment and choose the switch position to either automatic or manual.

In case the auto-calibration mode is used, the sensor needs to be exposed to fresh air at least once per month (at around 400ppm CO₂ i.e. outside air or room with good air exchange).