

talkpool

SenseAir CO₂ meter

Optimize living conditions within your buildings by installing this state-of-the-art piece of measuring equipment. Use the sensor to measure CO₂ levels, temperature and humidity so that you can adjust the air quality to levels that increase performance and well-being.

- Measure air quality: CO₂, temperature and humidity
- Maintenance-free life expectancy of over 5 years and easy installation



Technical specifications

Operating principle	
Non-dispersive infrared (NDIR)	Yes
Sample method	Diffusion

Range and accuracy	
Measurement range [CO ₂]	0 – 2000ppm
Operation range	0-50°C
	0 – 100% RH non-condensing
Accuracy [CO ₂]	±50ppm ±3% of reading
	Maintenance-free when using Senseair® ABC algorithm (Automatic Baseline Correction)
RMS noise [CO ₂]	14ppm @ 400ppm @ 25°C
	25ppm @ 1000ppm @ 25°C
Accuracy temperature	±0.7°C
Accuracy Relative Humidity	± 5 % RH (@20-80%RH)

Connectivity	
Network	LoRaWAN
Frequency bands	868 MHz
Provisioning	Over the air & personalization
Certification	CE & LoRa (ready Q2 2018)

Security	
Algorithms	AES-128, HASH
Hardware based	Yes
Features	Secure boot & firmware
Data encryption	Authentication

Power consumption	
Battery life length	> 5 years @ 15 min. reporting interval
Battery type	Replaceable 2 x 3.6V Lithium cell

Size	
Size	125 x 85 x 22 mm