Aranet CO₂ and Temperature sensor





Monitoring of carbon dioxide is necessary for many industrial processes in manufacturing plants, greenhouses, storage tanks and anywhere high levels of CO₂ are generated. Measures carbon dioxide concentration, atmospheric pressure and temperature

TDSPC005(EU)TDSPC0U5(NA)TDSPC0R5(RU)

Sensor performance			
	CO ₂	Temperature	Pressure
Range	0-9999 ppm	0 °C to 50 °C (32 °F to 122 °F)	300-1100 mbar
Resolution	1 ppm	0.1 °C (0.2 °F)	1 mbar
Accuracy (99 % confidence)	± 30 ppm + 3 % of reading	0.4 °C (0.7 °F)	1 mbar
τ (63 %) ¹	3 minutes	12 minutes	instantaneous

Radio parameters	
Line of sight range	3 km / 1.9 mi
Supported ISM bands	EU868, NA915
Transmitter power	14 dBm
Data transmission	1, 2, 5 or 10 minutes
(TX) interval	
Data protection	XXTEA encryption
Compatible base stations	Aranet PRO

General	
Ingress Protection code	IP67
Maximum operating	0 °C to 50 °C
temperature range	(32 °F to 122 °F)
Dimensions	Ø 43 x 147 mm
	(Ø 1.7 x 5.8 in)
Weight ²	93 g (3.3 oz)
Enclosure material	ASA plastic
Included in the box	1 AA Alkaline battery,
	string

Power	1 AA battery
Туре	Alkaline ³
Operating	0 °C to 50 °C
temperature	(32 °F to 122 °F)
TX interval	Battery life @ 20 °C (68 °F)
1 minute	1.3 years
2 minutes	2.5 years
5 minutes	5.3 years
10 minutes	8.4 years

Compliance			
CE	Conformité Européenne		
IC	Innovation, Science and Economic Development Canada		
FCC	Federal Communications Commission (USA)		

Aranet qualifies its CO₂ and Temperature Sensor to work properly within ambient clean air. Qualification for use in harsh environment is duty of the user of the sensor. Exposure to volatile organic compounds, acids or bases, etching substances such as H₂O₂, NH₃, shall be avoided.

¹ Response time determined in accordance with standard VDI / VDE 3522 Part 2

² Weight with Alkaline AA battery Fujitsu LR6G07 Premium.

³ AA Fujitsu LR6G07 Premium battery used for tests and calculations.