

# Aranet4



- ① Helps to reduce the risk of COVID-19 infection
- ② Measures carbon dioxide (CO<sub>2</sub>) concentration, temperature, relative humidity and atmospheric pressure
- ③ Small, portable and easy to use



Monitors air quality at your home, in school, office or any other indoor private or public space.

Aranet4	HOME	PRO
Measures carbon dioxide concentration, temperature, relative humidity and atmospheric pressure	TDSPC003.001	TDSPC003 (EU) TDSPC0U3 (NA) TDSPC0R3 (RU)

Sensor performance				
	CO <sub>2</sub> concentration	Temperature	Relative Humidity	Atmospheric Pressure <sup>1</sup>
Range	0 - 9999 ppm	0 - 50 °C	0 - 85 %	300 - 1100 hPa
Resolution	1 ppm	0.1 °C (0.1 °F)	1 %	1 hPa
Accuracy <sup>2</sup>	± 50 ppm ± 3 % of reading <sup>3</sup>	±0.3 °C (±0.5 °F)	± 3 %	± 1 hPa
Long term drift	N/A <sup>4</sup>	0.03 °C/year (0.05 °F/year)	0.5 %/year	1 hPa/year
Time constant $\tau$ (63 %) <sup>5</sup>	100 seconds	10 minutes	TBD	instantaneous

Radio parameters <sup>6</sup>	
Line of sight range	3 km (1.9 mi)
Supported ISM bands	EU868, NA915
Transmitter power	14 dBm
Data transmission interval <sup>7</sup>	1, 2, 5 or 10 minutes
Data protection	XXTEA encryption
Compatible base stations	Aranet PRO

General	
Ingress Protection code	IP20
Operating temperature range	0 °C to 50 °C (32 °F to 122 °F)
Operating relative humidity range	0% to 85 %
Dimensions	70 x 70 x 24 mm (2.76 x 2.76 x 0.94 in)
Weight <sup>8</sup>	104 g (3.7 oz)
Enclosure material	Polycarbonate
Included in the box	2AA alkaline batteries, configuration pin

Bluetooth parameters	
Line of sight range	10 m (33 ft)
Transmitter power	4 dBm or -12 dBm
Data transmission interval	1, 2, 5 or 10 minutes

Power	2 AA batteries
TX interval	Battery lifetime at 20 °C (68 °F) <sup>9</sup>
1 minute	0.6 years
2 minutes	1.1 years
5 minutes	2.4 years
10 minutes	3.9 years

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

Aranet4 is not impact resistant!  
Do not leave the device in the direct sunlight!

<sup>1</sup> The device measures absolute pressure, i.e., the readings are not compensated for an elevation above the sea level.

<sup>2</sup> 95 % of the sensors measure within these typical limits in equilibrium state at the time of sale. For evaluation of the total measurement error long-term drift has to be taken into account.

<sup>3</sup> CO<sub>2</sub> measurement accuracy is provided for a range 400 ... 2000 ppm, temperature 15 ... 35 °C (59 ... 95 °F) and relative humidity 0 ... 60 %. Accuracy above 2000 ppm is 10 % of reading, but not guaranteed since it is extrapolated from the calibrated range.

<sup>4</sup> If a drift of the CO<sub>2</sub> measurements occurs, calibration option of the device should be used.

<sup>5</sup> Time constant is determined at 1 m/s airflow.

<sup>6</sup> Available only for the PRO version of the product.

<sup>7</sup> Due to regulatory requirements 1 minute data transmission interval is not available in Russia.

<sup>8</sup> Weight with alkaline AA Fujitsu LR6G07 Premium batteries.

<sup>9</sup> With the Bluetooth connection disabled. Battery lifetime data has been obtained by mathematical extrapolation and is provided for descriptive purposes only and is not intended to make or imply any guarantee or warranty. AA Fujitsu LR6G07 Premium batteries used for tests and calculations.