Aranet Differential Pressure sensor

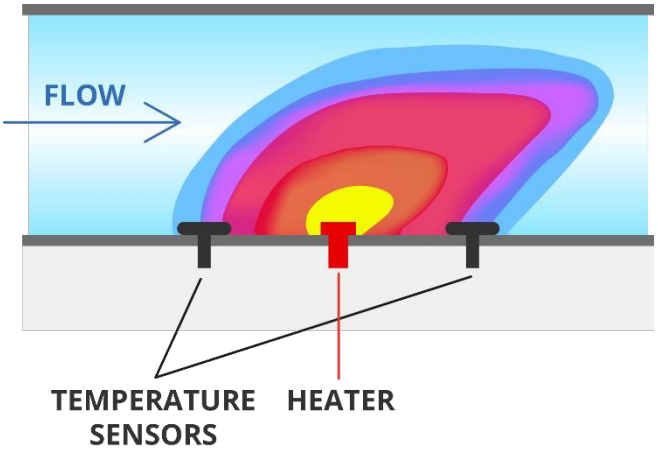
1. Measures air pressure
2. IP65 casing
3. More than 12 years battery life

Used in HVAC, building automation, clean rooms, pharmaceutical industry and laboratories. Applications include clogged air filter detection, stairwell pressurization, measuring the airflow and pressure through a system.

Aranet Differential Pressure sensor

TDSPDP01 (EU)
TDSPDPU1 (NA)
TDSPDPR1 (RU)

Sensor performance	
Pressure range	± 500 Pa
Resolution	0.02 Pa
Accuracy[1]	0.10 Pa + 3 % of reading
Long term drift	0.05 Pa / year
Response time (99 %)	< 1 second
Temperature compensation range	-20 °C to +60 °C (-4 °F to 140 °F)
Calibrated for	Air, N_2
Gas compatibility[2]	Air, N_2, O_2



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

General	
Ingress Protection code	IP65
Maximum operating temperature range	-40 °C to 60 °C (-40 °F to 140 °F)
Dimensions	154 x 94 x 43 mm (6.1 x 3.7 x 1.7 in)
Weight[4]	250 g (9 oz)
Enclosure material	PS plastic
Included in the box	2 AA Alkaline batteries

Power	1 AA battery	
Type	Alkaline[5]	Lithium[6]
Operating temperature	-20 °C to 55 °C (-4 °F to 131 °F)	-40 °C to 60 °C (-40 °F to 140 °F)
TX interval	Battery lifetime at 20 °C (68 °F)[7]	
1 minute	3.9 years	5.4 years
2 minutes	6.8 years	9.8 years
5 minutes	10 years	10+ years
10 minutes	10 years	10+ years

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

[1] Accuracy is provided at temperature +25 °C and absolute pressure 966 mbar.
[2] Long term exposure to (high concentrations of) O_2 at high temperatures can reduce the product lifetime.
[3] Due to regulatory requirements 1 minute data transmission interval is not available in Russia.
[4] Weight with alkaline AA Fujitsu LR6G07 Premium battery.
[5] AA Fujitsu LR6G07 Premium battery used for tests and calculations.
[6] AA Energizer L91 Ultimate Lithium battery used for tests and calculations.
[7] 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.