

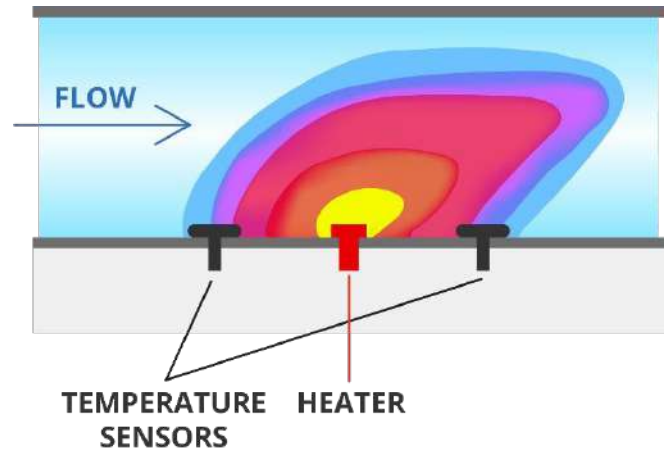


Aranet Differential Pressure sensor

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.

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) O₂ 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.