

Aranet PT100 transmitter



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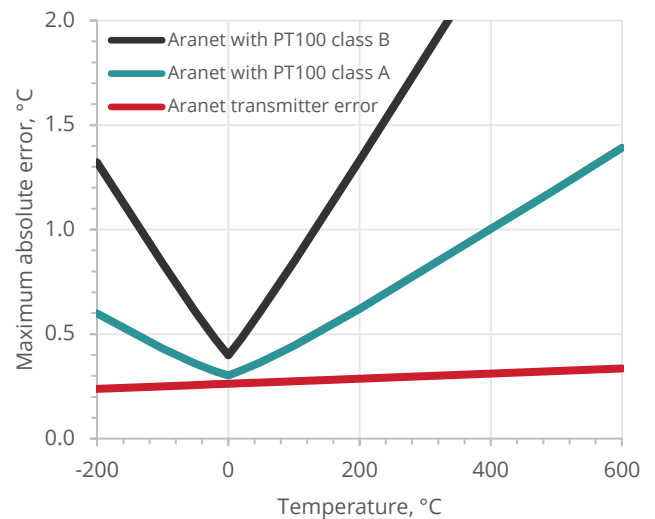
- 1 Monitors air, liquid and solid surface temperature
- 2 Up to 3 km / 1.9 mi range
- 3 IP68, designed to endure the harshest environments
- 4 Up to 10 meters of probe length
- 5 2 or 4 wire connections with already existing equipment
- 6 Temperature range -200 °C (-328 °F) up to 600 °C (1112 °F)

Easy-to-use
resistance-to-digital
converter for industrial
and medical equipment
as well as
instrumentation.



Transmitter performance

Probe compatibility	PT100 (any class)
Configuration	4-wire ¹
Range	-200 °C to 600 °C (-328 °F to 1112 °F)
Resolution	0.1 °C (0.1 °F)
Accuracy at 0 °C (32 °F) (99 % confidence)	±0.26 °C (±0.47 °F)
Cable length	1 m (3.3 ft)
Operating temperature of the cable	-40 °C to 200 °C (-40 °F to 392 °F)

Sensor accuracy²

Radio parameters

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

General

Ingress Protection code	IP68
Maximum operating temperature range	-40 °C to 60 °C (-40 °F to 140 °F)
Dimensions	Ø 35 x 120 mm (Ø 1.4 x 4.7 in)
Weight ⁴	80 g (2.8 oz)
Enclosure material	ASA plastic
Included in the box	1 AA Alkaline battery, string

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 life @ 20 °C (68 °F)	
1 minute	1.3 years	1.7 years
2 minutes	2.4 years	3.2 years
5 minutes	5.2 years	7.3 years
10 minutes	8.4 years	12 years

Compliance

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

¹ Compatible also with 2-wire PT100 resistor. 3-wire version available on request.

² Considering temperature of the radio transmitter being constant +25 °C.

³ Due to regulatory requirements 1 minute interval in Russia is not available.

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.