

# T-Compact Sensor

This small IP68 temperature sensor is designed specifically for monitoring refrigerators, freezers, or any location where only temperature monitoring is needed. This device, belonging to the PRO sensor series, includes Aranet Sub-GHz ISM band radio which wirelessly transmits sensor measurements to the Aranet PRO base station.



## Product numbers

European Union	TDSPT204
United States	TDSPT2U4
Asia	TDSPT2U4

## Temperature measurement performance

Range	-40–60 °C	-40–140 °F
Resolution	0.1 °C	0.1 °F
Accuracy	±0.2 °C	±0.3 °F

- 95 % of the sensors perform within the specified accuracy limits at the time of purchase, assuming they are in an equilibrium state.

## General specifications

Ingress protection rating	IP68	
Maximum operating temperature	-40–60 °C	-40–140 °F
Dimensions	∅35×120 mm	∅1.4×4.7 in
Weight (incl. battery)	30 g	1 oz
Enclosure material	ASA plastic	
Packaging includes	1 pc AA alkaline battery	

## Battery lifetime




Measurement interval	Alkaline battery lifetime	Lithium battery lifetime
1 min	1.0 years	1.0 years
2 min	1.9 years	2.0 years
5 min	4.1 years	4.6 years
10 min	6.8 years	8.0 years

- 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.
- Battery lifetime tests and calculations performed assuming device is at 20 °C (68 °F) and using *Fujitsu Premium LR6G07* (alkaline) and *Energizer Ultimate Lithium L91* (lithium) AA batteries as reference.
- The operating temperature range may vary based on the battery type used. Generally, the range for alkaline batteries is between -20–50 °C (-4–122 °F), whereas for lithium batteries, it is -20–60 °C (-40–140 °F).

## Aranet radio parameters

Line of sight range	3 km	1.9 mi
Transmitter power	14 dBm	25 mW
Data transmission interval	1, 2, 5 or 10 min	
Data protection	XXTEA encryption	

## Compliance information

-  Conformité Européenne
-  Federal Communications Commission (USA)
-  Innovation, Science and Economic Development Canada