

# Ultrasonic Distance Sensor

Used to monitor level of liquid and non-liquid materials. 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	TDSPDM02
United States	TDSPDMU2
Asia	TDSPDMU2
Japan	TDSPDMJ2

## Distance measurement performance

Range	0.5–10 m
Resolution	0.01 m
Accuracy	1 % of reading

## General specifications

Ingress protection rating	IP67	
Maximum operating temperature	-40–60 °C	-40–140 °F
Dimensions	∅77.2×561 mm	∅3.04×22.10 in
Weight (incl. battery)	310 g	11 oz
Enclosure material	ASA, PVC, Aluminium	
Packaging includes	1 pc AA alkaline battery, polyester string for hanging the device	

## Battery lifetime

Measurement interval	Alkaline battery lifetime	Lithium battery lifetime
1 min	0.8 years	1.0 years
2 min	1.5 years	1.9 years
5 min	3.3 years	4.5 years
10 min	5.7 years	8.1 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

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