

# 0-10 VDC Transmitter

Measures analog signal of a 3<sup>rd</sup> party sensor. 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	TDSPVM02.010
United States	TDSPVMU2.010
Asia	TDSPVMU2.010

## Voltage measurement performance

Range	-32 to +32 VDC
Resolution	0.01 V
Accuracy	0.5 %

## Cable color coding

Brown	Ground (GND)
White	Signal (+V)

## General specifications

Ingress protection rating	IP68	
Operating temperature range	-40–60 °C	-40–140 °F
Transmitter dimensions	∅35×120 mm	∅1.4×4.7 in
Cable length	1 m	3.2 ft
Weight (incl. battery)	100 g	3.5 oz
Enclosure material	ASA plastic	
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	1.6 years	2.1 years
2 min	3.0 years	4.0 years
5 min	6.0 years	8.6 years
10 min	9.6 years	>10 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