



# Aranet 0-10 V transmitter with 12 VDC power supply

Battery-powered and energy-efficient solution designed to integrate with any 3rd party sensor

## Aranet 0-10 V transmitter with 12 VDC power supply

Measures analog signal of a 3<sup>rd</sup> party sensor,  
provides 12 VDC power for a 3<sup>rd</sup> party sensor.

TDSVT102 (EU)  
TDSVT1U2 (US, AS)

### Sensor performance

Range	-32 to +32 VDC
Resolution	0.01 V
Accuracy <sup>1</sup>	± 5 %
Output voltage	12 VDC
Output voltage tolerance	± 0.3 VDC
Max output power	2.8 W

### Radio parameters

Line of sight range	3 km (1.9 mi)
Supported ISM bands	EU868, RU869 US920, AS923
Transmitter power	14 dBm
Data transmission interval	1, 2, 5 or 10 minutes
Data protection	XXTEA encryption

### General

Ingress protection rating	IP67
Operating temperature range <sup>2</sup>	-30 °C to 85 °C (-22 °F to 185 °F)
Dimensions	160 x 132 x 46 mm (6.3 x 5.2 x 1.8 in)
Weight	250 g (8.8 oz)
Enclosure material	Polycarbonate
Included in the box	1 AA alkaline battery

### Power

Input voltage	85 – 265 VAC
Frequency range	47 – 63 Hz
Max power consumption	10 W

### Compliance

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

<sup>1</sup> 95 % of the sensors measure within these typical limits in equilibrium state at the time of sale.

<sup>2</sup> If battery used, operating temperature range narrows according to battery type. For alkaline battery the range is -20 °C to 50 °C (-4 °F to 122 °F).