



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

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<br>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<br>(-22 °F to 185 °F)     |
| Dimensions                               | 160 x 132 x 46 mm<br>(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<br>Development Canada |
| FCC | Federal Communications Commission<br>(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).