



Aranet 4-20 mA transmitter with 12 VDC power supply

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

Aranet 4-20 mA transmitter with 12 VDC power supply

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

TDSCT102 (EU)
TDSCT1U2 (US, AS)

Sensor performance

Range	0 – 30 mA
Resolution	0.01 mA
Accuracy ¹	± 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 ²	-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)



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

² 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).