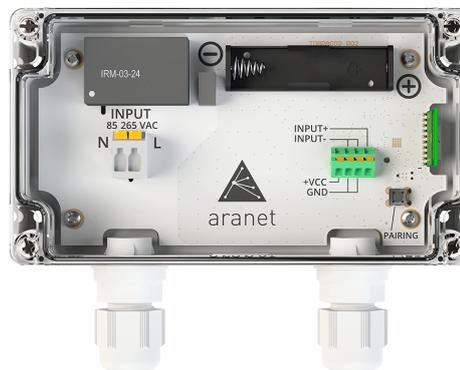


4-20 mA Transmitter with 12 VDC PSU

Measures analog signal of a 3rd party sensor. Provides 12 VDC power for a 3rd party sensor using the built-in power supply unit (PSU). 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 | TDSCT102 |
| United States | TDSCT1U2 |
| Asia | TDSCT1U2 |

Electric current measurement performance

| | |
|--------------------------|----------|
| Range | 0–30 mA |
| Resolution | 0.01 mA |
| Accuracy | ±5 % |
| Output voltage | 12 VDC |
| Output voltage tolerance | ±0.3 VDC |
| Maximum output power | 2.8 W |

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

General specifications

| | | |
|-----------------------------|--------------------------|----------------|
| Ingress protection rating | IP67 | |
| Operating temperature range | -30–80 °C | -22–176 °F |
| Dimensions | 160×132×46 mm | 6.3×5.2×1.8 in |
| Weight (incl. battery) | 250 g | 8.8 oz |
| Enclosure material | Polycarbonate | |
| Packaging includes | 1 pc AA alkaline battery | |

Power specifications

| | |
|---------------------------|------------|
| Input voltage | 85–265 VAC |
| Frequency range | 47–63 Hz |
| Maximum power consumption | 10 W |

- External power is required for the PSU to operate, enabling the connected sensor to function. The battery is optional and powers only the data transmitter to facilitate pairing and to notify user in case of external power loss.

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

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