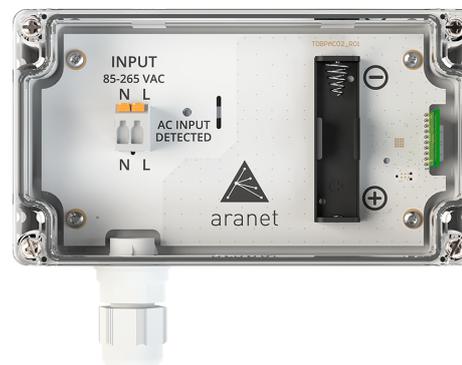


# AC Hour Meter

Provides operational time measurements for any device connected to the power grid. 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	TDSPAC02
United States	TDSPACU2
Asia	TDSPACU2

## AC connection time measurement performance

Input voltage	85–265 VAC
Input frequency	47–63 Hz
Resolution	1 s
Accuracy	±2 min/month
Surge immunity	2 kV (L–L), 4 kV (L–GND)

- Tested in accordance with EN 61000-4-5:2014 standard.
- LED labeled “AC input detected” provides instantaneous feedback on sensor status.

## General specifications

Ingress protection rating	IP67	
Maximum operating temperature	-40–55 °C	-40–131 °F
Dimensions	130×94×57 mm	5.1×3.7×2.2 in
Weight (incl. battery)	250 g	9 oz
Enclosure material	Polycarbonate	
Power supply	1 pc AA battery	
Packaging includes	1 pc AA alkaline battery	

## Battery lifetime

Measurement interval	Alkaline battery lifetime	Lithium battery lifetime
1 min	1.5 years	1.9 years
2 min	2.6 years	3.5 years
5 min	5.0 years	7.0 years
10 min	7.2 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 -40–60 °C (-40–140 °F).

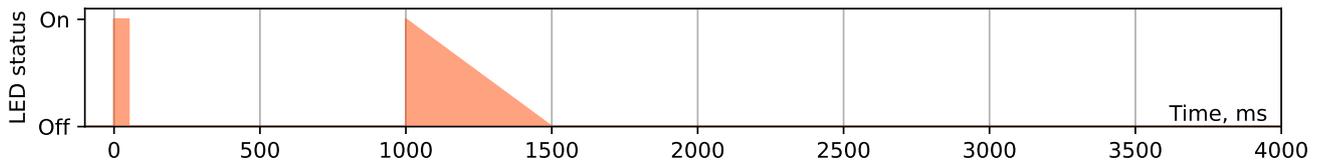
## Aranet radio parameters

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	

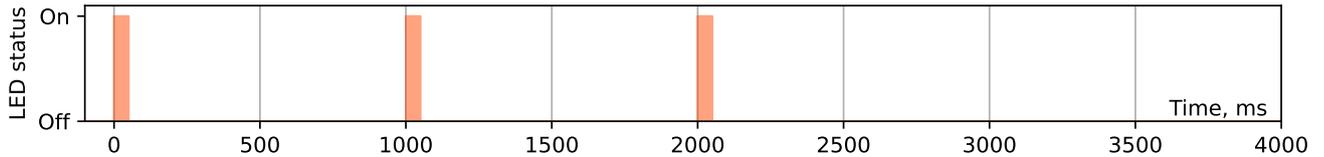
## Pairing process description

As part of the Aranet PRO product series, this device enables wireless sensor reading transmission to the Aranet PRO and PRO Plus base station. Here's how to pair the sensor with the base station:

- Place the sensor within 20 m (60 ft) of the base station during pairing. Once paired, it can communicate over a much greater distance (up to 3 km / 1.9 mi line of sight).
- If the sensor uses a power supply unit, unplug it. Open the sensor casing and remove the battery for at least 20 seconds. Alternatively (for newer hardware revisions), locate the PAIRING button on the sensor PCB which can be used to initiate pairing without the removal of battery.
- Access the SENSORS menu in the base station Web GUI. Set the measurement interval and select PAIR SENSOR to start the pairing process.
- Within a 2-minute window, insert the battery or press the PAIRING button on the sensor PCB (for newer hardware revisions) to initiate pairing.
- A successful pairing is indicated by the sensor appearing in the Web GUI and a specific LED blink sequence on the sensor PCB (one to three short blinks followed by a longer fade-out blink of the LED):



- If pairing fails, the sensor won't appear in the Web GUI, and the LED blink sequence will consist only of three short blinks. In this case, repeat the procedure closer to the base station.



- After successful pairing, customize parameters like name and tags in the Web GUI. Close the sensor casing and install it in the desired location.

## Compliance information

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