

AoFrio LoRaWAN temperature sensor

AoFrio's compact LoRaWAN temperature sensor measures temperature and humidity then transmits the data seamlessly and securely to the Cloud.

By combining the sensor with AoFrio's LoRaWAN Gateway and iQ Cloud Platform, you can manage the temperature and humidity data you have captured remotely and from multiple applications including offices, supermarkets and hospitals. Thanks to its low power consumption, this sensor will also work for up to 5 years with a 4000 mAh battery.



- Embedded with a Sensirion high-precision sensor chip.
- Ultra-wide-distance transmission up to line of sight of 10km.
- IP67 UV-resistant and waterproof enclosure for harsh environment applications.
- Built-in 4000 mAh replaceable battery that works for more than 5 years without replacement.
- Stores 3,000 historical records locally and support re-transmission to prevent data loss.
- Equipped with NFC for easy configuration.
- Compliant with standard LoRaWAN® gateways and network servers.

Specifications	
Temperature measurement	<ul style="list-style-type: none"> • Range -30°C to + 70°C • Accuracy 0°C to + 70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C) • Resolution 0.1°C
Humidity measurement	<ul style="list-style-type: none"> • Range 0% to 100% RH • Accuracy 10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%) • Resolution 0.5% RH
Power supply	1 × 4000 mAh ER18505 Li-SOCL2 Battery (extendable to 2 batteries)
Power on/off	NFC, Power Button (Internal)
Battery	4000 mAh battery
Battery life	10 years (10 min interval) * Tested under laboratory conditions and for guideline purposes only.
Cellular communications	Technology LoRaWAN®
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx power	16dBm(868 MHz)/20dBm(915 MHz)/19dBm(470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A
Mounting method	Wall mounting
Ingress protection	IP67
Operating temperature	-30°C to +70°C
Relative humidity	0% to 100% (non-condensing)
Storage temperature	-20°C to +60°C (-4°F to 140°F)
Dimensions	88.5 × 85.3 × 27 mm (3.48 × 3.36 × 1.06 in)
Weight	0.2kg (0.44 lb)
Approvals	