MacSync-LT1 Overview

MacSync-LT1 is a compact environmental monitoring sensor designed for accurate measurement of temperature and humidity, with data transmission over **LoRaWAN®** technology. Featuring ultra-low power consumption and a built-in high-capacity battery, the device enables maintenance-free operation for several years.

With its industrial-grade design and weather-resistant enclosure, MacSync-LT1 is ideal for **both indoor and outdoor** applications such as warehouses, data centers, cold storage, greenhouses, server rooms, and smart buildings

Sensors	Temperature	Humidity	Pressure

Wireless Technology	LoRa

Features

SHT Series High-Precision Sensor For reliable temperature & humidity readings	**LoRaWAN® Class A & C communication** With ultra-long-range transmission
IP65-Rated Enclosure Designed for industrial & outdoor environments	**Supports periodic, threshold-based, & event-driven uplinks**
BLE Support Easy local configuration and diagnostics with Maya	**Massive 19Ah built-in lithium battery** Up to 10+ years depending on settings
Supports Macnman Beam Protocol Direct control, & local device-to-device actions	**Secure onboarding with pre-flashed DevEUI / AppEUI / AppKey**
Optional Onboard Data Buffering To prevent data loss in case of network downtime	**Compatible with all LoRaWAN® network servers & gateways**

Specifications

Measurement

Temperature Sensor

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
Calibration	Factory calibrated
Probe Options	Internal & External Both Options

Humidity Sensor

Range	0% to 100% RH
Accuracy	10% to 90% RH: ±3% RH & <10% or >90% RH: ±5% RH
Resolution	0.5% RH
Calibration	Factory calibrated

Wireless Transmission

Technology	LoRaWAN® (v1.0.4), Macnman Beam Protocol
Antenna	Internal high-efficiency antenna
Supported Bands	IN865 / RU864 / EU868 / US915 / AU915 / KR920 / AS923-1/2/3/4
Tx Power	16 dBm @ 868 MHz 20 dBm @ 915 MHz 19 dBm @ 470 MHz
Sensitivity	-137 dBm @ 300 bps
Activation	OTAA / ABP
LoRaWAN® Class	Class A (default), Configurable to Class C via Maya

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Led Status

LED Type	1 Internal Multi-Color LED
Solid Blue	Device is connected with Maya App
Flashing Blue	OTA (Over-the-Air) update in progress
Slow Blinking Green	Attempting to connect to the LoRaWAN® network
Single Red Blink	A confirmed parameter of MacSync is being modified

Configuration

Configuration	Via Macnman Maya Android App
Maya Fatures	Threshold / Trigger / Sample based alarm triggers
Stored Records	30,000 Records (accessible via Maya)
Remote Configuration	Yes - JSON format Data
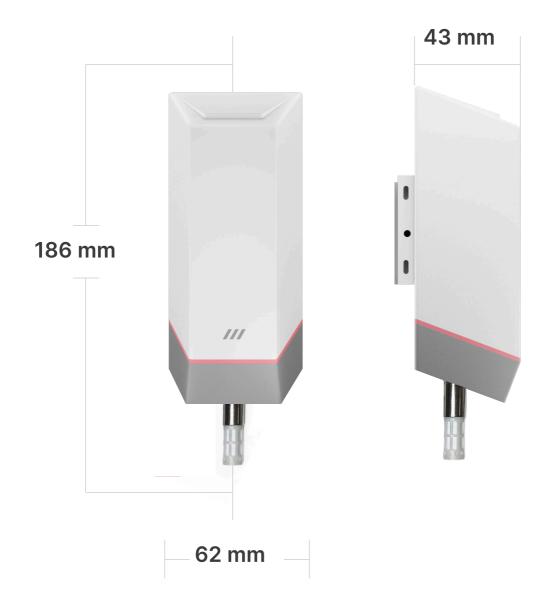
Physical Characteristics

Power Supply	1 × 19,000 mAh Li-SOCl$_2$ battery (field-replaceable)
Battery Life*	Up to 10+ years (SF7, 10-minute interval)
	~5.8 years (SF10, IN865)
Operating Temp	-30°C to +70°C
Humidity Range	0% to 100% RH (non-condensing)
Ingress Protection	IP65 standard (IP67 optional variant)
Housing Material	Glass Field Nylon
Color	Matte White

Weight	~240g (with 19Ah battery)
Dimensions	Approx. 186 mm X 62 mm X 43 mm (customizable branding available)
Mounting Options	Wall mount (screw), 3M adhesive, cable tie slots

Certifications

Regulatory	WPC
Environmental	RoHS compliant

Device Dimensions

43 mm

186 mm

62 mm

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Say Hello 👋

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