OY1110 LoRaWAN Temperature and humidity sensor

LoRaWAN sensor that measures **temperature and humidity**, with an incredible **maintenance free lifetime of 10 years at a 5-minute measurement interval**. Easy to use, configurable over the air and stylish in design to fit into indoor spaces.

Typical use cases:

Heat allocation

Indoor climate control

Building damage prevention

Food monitoring

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Technical specification

Accuracy and range

Temperature accuracy	± 0,2 ℃ (conditions 0 ℃ to +50 ℃)
Temperature range	-20 ℃ to +60 ℃
Humidity accuracy	± 2% (conditions 10-90% RH)
Humidity range	0% to 100% non-condensing

Accuracy of ±0,1 ℃ and ±1,5% humidity available upon request

Connectivity

Network	LoRaWAN
Frequency bands	868 MHz
Provisioning	Over the air & personalization

Security

Algorithms	AES-128
Hardware	Cryptographic co-processor
Features	Secure boot
	Secure firmware upgrade

Hardware based ultra secure key storage

Battery life

Battery life length	10 years (at 5 minute intervals, SF7)
Primary cell	Lithium-thionyl 3.6V
Capacity	3.6 Ah

Size & Weight

Size	65 x 75 x 28 mm
Weight	75g

Configuration

Measurement intervals	1 minute – 1 week*
Transmission intervals	1 minute – 12 weeks*

*Default 15 minutes, configurable over the air

Unique App EUI available upon request

Enclosure
IP30

Certifications
RoHS compliant
CE
LoRaWAN