

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.

High quality, high security

Talkpool's LoRaWAN[®] sensor devices are developed and designed in Sweden, where Talkpool's IoT headquarters are located as well. The company produces high quality sensor devices that are reliable in use. The devices have a long battery life and are easy to install, perfect for mass deployments.

Building damage prevention

One of the primary use cases of the OY1110 LoRaWAN[®] Temperature and humidity sensors is in building damage prevention. These damages are typically discovered too late, resulting in repairs and down-time. Common causes are ventilation problems, construction errors and water leakages. In modern, air-tight buildings, molds are often quickly forming as soon as there is a problem with the ventilation system. In older buildings there can be deeper rooted causes such as structural bad ventilation. Temperature and humidity data serves as input for the calculation of the risk for mold forming, so that building damages can be prevented.



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Indoor climate control

Having control on the indoor climate both saves energy cost and improve tenant satisfaction. Real time view, tenant complains, insights where to improve building, improve tenant relation with app. Low cost so it can be permanently installed in all apartments

“Controlling a building without temperature sensors is like driving a car without speedometer”.

Accuracy and range	
Temperature accuracy	± 0,2 °C (conditions 0 °C to +50 °C)
Temperature range	-20 °C to +60 °C
Humidity accuracy	± 2% (conditions 10-90% RH)
Humidity range	0% to 100% non-condensing
<i>Accuracy of ± 0,1 °C and ± 1,5% humidity available upon request</i>	
Connectivity	
Network	LoRaWAN®
Frequency bands	868 MHz
Provisioning	Over the air & personalization
Size	
Size	65 x 75 x 28 mm
Weight	75g
Security	
Algorithms	AES-128
Hardware	Cryptographic co-processor
Features	Secure boot
	Secure firmware upgrade
<i>Hardware based ultra-secure key storage</i>	
Battery life	
Battery life length	10 years (5 minute intervals, SF7)
Primary cell	Lithium-thionyl 3.6V
Capacity	3.6 Ah
Configuration	
Measurement intervals	1 minute – 1 week*
Transmission intervals	1 minute – 12 weeks*
*Default 15 minutes, configurable over the air	
<i>Unique App EUI available upon request</i>	

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Enclosure

IP30

Certifications

RoHS compliant

CE

LoRaWAN®

Order Product Numbers (OPN)

Version	OPN
OY1110 LoRaWAN® Temperature and humidity sensor	TP-T1110-000-1-EU
OY1110H LoRaWAN Temperature and high humidity sensor	TP-T1110-00H-1-EU

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