



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.

Acci	iracv	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	
Accuracy of \pm 0.1 °C and \pm 1.5% humidity available upon request		

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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	
Hardware based ultra-secure key storage		



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				
Unique App EUI available upon request				
Enclosure				
IP30				
Certifications				
RoHS compliant				
CE				
LoRaWAN				



OY1110 LoRaWAN Temperature and humidity sensor

Product datasheet

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.

complaints about the temperature in winter time, when it becomes colder. After the heating season, the heating can be lowered again in line with the temperature data.

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.



Real estate management

Another very common use case for the OY1110 LoRaWAN

Temperature and humidity sensor is in real estate management. The wireless sensor devices are easily installed and provide the property manager with useful temperature data. This is used to prevent