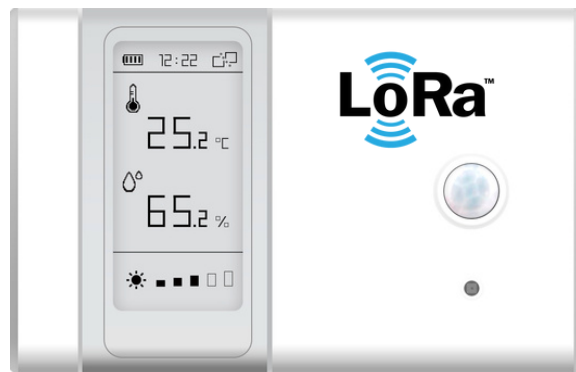


EM7 / EM4



LoRaWAN 7 in 1 Sensor

- Detect movement to understand activity levels
- Real time humidity & temperature monitoring
- Luminance data for lighting status (LUX)
- CO2 concentration levels for indoor air quality
- Air quality levels of volatile organic compounds (TVOC)
- Barometric pressure variations over time



LoRaWAN certified | Long Battery Life | High Accuracy | Long Range Wireless

		EM7	EM4	
Hardware	Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923		
	Tx Power	20dBm		
	Sensitivity	-147dBm @300bps		
	Mode	OTAA/ABP		
	Power Supply	2 X alkaline AA batteries		
	Battery Lifetime	1 year (SF7) 0.9 year (SF12)	1.5 years (SF7) 1.2 years (SF12)	
Sensors	Temperature	Range	-20 to + 70 degrees (Operating temperature for screen: 0-45 degrees)	
		Accuracy	+0.3 degree (0 - 70), +0.6 degrees (-40 - 0)	
	Humidity	Range	0% to 100% RH	
		Accuracy	+3% RH (10% - 90%), +5% RH (0% - 10%, 90% - 100%)	
	PIR	Detection Area	94 degrees Horizontal, 82 degrees Vertical	
		Detection Distance	5 m	
	Light	Range	60000 lux (Visible + IR, IR)	
		Accuracy	+30 %	
	CO2	Range	400 - 500 ppm	CO2, TVOC, BP not present on EM4
		Accuracy	+30 ppm or + 3 % of reading	
	TVOC	Range	0 - 60000 ppb (total VOC)	
		Accuracy	+15 % of reading	
		Long-term Stability	1.3% accuracy drift per year	
Barometric Pressure	Range	300 - 1100 hPa (-40 - 85 degrees)		
	Accuracy	+1 hPa		