

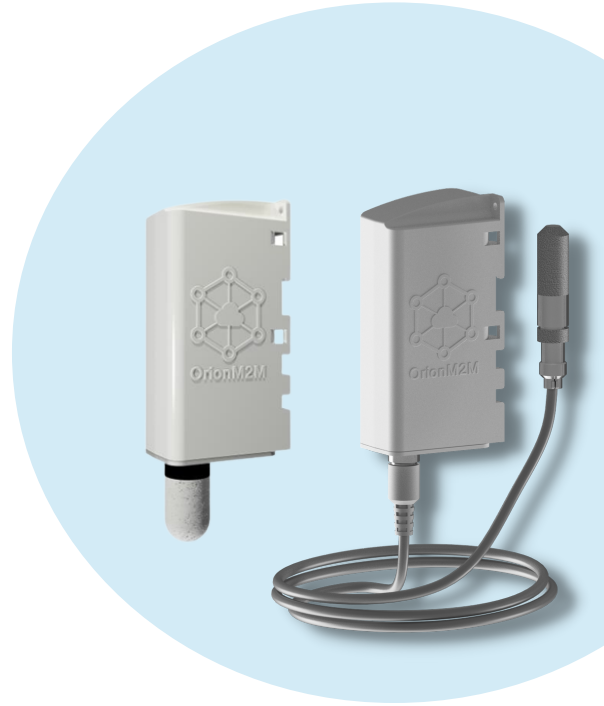


# OrionM2M

## LoRaWAN Temperature, Humidity & IAQ Sensor ORIONMETER LA-IP

### FEATURES:

-  LoRaWAN v1.0.3 Class A
-  Ultra-low power consumption
-  Rapid installation and deployment
-  High reliability and stability
-  EasyTool technology allows configure the device remotely
-  Up to 15 km communicating range
-  With BatteryCare® technology life time period is up to 10 years
-  Non-volatile memory stores data



### APPLICATIONS:

Wireless Alarm and Security Systems | Smart building and Industrial Control | Smart Agriculture | Other wireless sensing applications

### General

Enclosure material	PC
Microcontroller	Ultra-low-power MCU STM32L0
Sleep current consumption, uA	<2
Working temperature, °C	-30...+60
Battery type	Li-SOCL2
Battery voltage, V	3,6
Battery capacity, mAh	3650
Battery life, year	up to 10
IP Rating	IP65
Indication	Led
Activation	Magnet
Sensor records with a timestamp	1600
Mount	Pole braces, DIN rail, wall
Weight, g	≤112
Warranty operating period, months	36

### HDC1080

Operation range, humidity	0 – 100
Operation range, temperature	-30 ... +60
Humidity Accuracy	±2% (typical)
Temperature Accuracy	±0.2°C (typical)

### BME680

Operation range, humidity	10 – 100
Operation range, temperature	-40 ... +85
Operation range, pressure	300...1100 hPa
Humidity Accuracy	±3%
Gas sensor	IAQ: Index for Air Quality

### Radio

Communication protocol	LoRaWAN v1.0.3
Device class	A
Bands	EU863-870 IN865-867 RU864-870 KZ865-868 US902-928 AU915-928 AS923 KR920-923
Activation in LoRaWAN	OTAA/ABP
LoRa Power Output	up to 14 dBm (25 mW)
Receiver sensitivity, dBm	up to -137
Signal lead	Internal antenna
Data transfer rate, kbps	0,3 ... 40
ADR support	Yes
Communication range, km	up to 15

### Order Info

Description	
SKU	I2C interface on board; battery 3,6V; 3650mAh
I2C/T-S-F	<p><b>T: type</b></p> <ul style="list-style-type: none"> <li>· I: Internal sensor</li> <li>· E: External sensor</li> </ul> <p><b>S: sensors</b></p> <ul style="list-style-type: none"> <li>· HDC: TI HDC1080</li> <li>· BME: BME680</li> </ul> <p><b>F: the default frequency band</b></p> <ul style="list-style-type: none"> <li>· EU: frequency band EU863-870</li> <li>· IN: frequency band IN865-867</li> <li>· RU: frequency band RU864-870</li> <li>· KZ: frequency band KZ865-868</li> <li>· US: frequency band US902-928</li> <li>· AU: frequency band AU915-928</li> <li>· AS: frequency band AS923</li> <li>· KR: frequency band KR920-923</li> </ul>