

MAS2-L



LoRaWAN Operated Low Power Humidity and Temperature Sensor

- Compatible with all LoRaWAN frequencies
- · Wide range of industrial applications
- High accuracy
- Designed to meet outdoor applications
- Long-term durable performance in harsh environment
- Ultra-low power



TECHNICAL SPECIFICATION

Humidity Sensor	Н
------------------------	---

•	Accuracy (%RH)	±2 (typ.)		
•	Resolution (%RH)	0.01 (typ.)		
•	Hysteresis (%RH)	±0.8 (typ.)		
	· · · · · · · · · · · · · · · · · · ·	at 25°C		
•	Storage Temperature (°C)	-10 to +60		
•	Operation Temperature (°C)	-10 ~ +70		
Temperature Sensor				
•	Accuracy (°C)	±0.5 (typ.)		
•	Resolution (°C)	0.01 (typ.)		
•	Specified Range (°C)	-40 to 125		
•	Storage Temperature (°C)	-10 to +60		
•	Operation Temperature (°C)	-10 ~ +70		
Power				
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)		
•	Rated Voltage (V)	3.6		
•	Battery Lifetime	100,000+ readings and 20,000+ transmission		
	•	(More than 10 years for most applications)		
Physical				
•	Materials	Enclosure: ASA or POM		
		Sensor: Sintered metal mesh encasing		
•	Weight (g)	1300		
•	Protection Rate	IP66 or IP68 and UV Protected enclosure		





MAS2-L

Communication

 LoRaWAN® Version, Class 	1.0.2revB, Class A (Class C on request)
 LoRaWAN® Frequency Zone 	AS923, EU868, US902-928, AU915-928
• •	(other zones available on request)
 LoRaWAN® Activation Type 	OTA (default), ABP
 Sampling Type 	Periodic (default), Event triggered
 Sampling Period 	Configurable via downlink (default 4 hours)
 Transmission Type 	Per sample (default), Event triggered, Conditional
 Parameter Configuration 	Over-the-air via LoRaWAN® downlinks
<u> </u>	Locally via wireless connectivity
 Firmware Update 	Locally via Wireless Connectivity, Over The Air

NETWORK CONNECTION AND VISUALIZATION

Network Integration

Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, GeoWAN, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Senet, Sens, Swisscom, TATA, The Things Network(TTN), TTI and any other network)

Visualization And Data Management

10Sorex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagolO, AllThingsTalk Maker, HPE IoT and any other major IoT platform).

10Sorex Platform Main Features

- Encrypted ultra-low power communication protocol
- Advanced device inventory
- Integration APIs for enterprise systems
- Multi-tenant role-based access control
- Data export and import
- White-label platform for enterprise runs on private account
- Variable alarm setting for high and low thresholds and multi-channel alerting
- Sampling and transmission interval configuration
- Transmission condition configuration
- Other configurations and customization available on request



Encrypted & ultra-low power



Integratable



Dynamic alerting



Multi-tenant



Scalable



Composable & API first



www.10sorex.com



Sales@10sorex.com



+1 (424) 400-4964



MAS2-L

INDUSTRIES

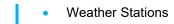




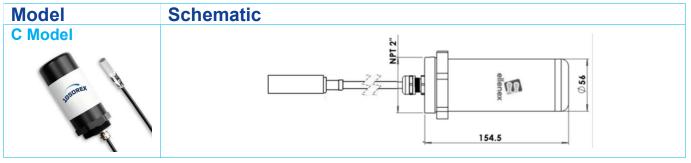


APPLICATIONS

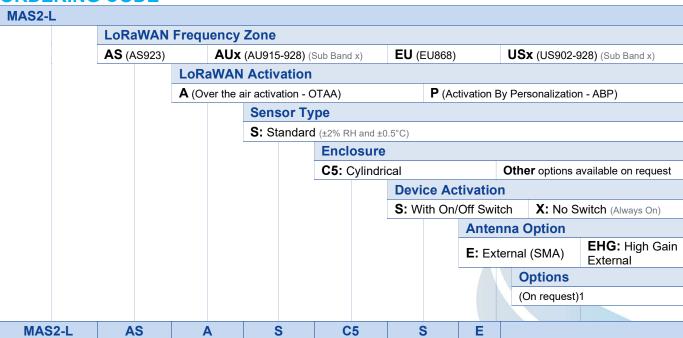
Moisture Monitoring Systems



MODEL GUIDE



ORDERING CODE



Sample Product Code:

MAS2-L-AS-A-S-C5-S-E

LoRaWAN Operated Low Power Humidity Sensor, Over The Air Activated, with cylindrical enclosure, activated by on-off switch and external antenna.

