MAS2-L Spec-sheet





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

•	Accuracy	±2 (typ.)	%RH
•	Resolution	0.01 (typ.)	%RH
•	Hysteresis	±0.8 (typ.) at 25°C	%RH
•	Storage Temperature	-10 to +60	°C
•	Operation Temperature	-10 ~ +70	°C
Tem	perature Sensor		
•	Accuracy	±0.5 (typ.)	°C
•	Resolution	0.01 (typ.)	°C
•	Specified Range	-40 to 125	°C
•	Storage Temperature	-10 to +60	°C
•	Operation Temperature	-10 ~ +70	°C
Pow	er		
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)	
•	Rated Voltage	3.6	V
•	Battery Lifetime	100,000+ readings and 20,000+ transmission (More than 10 years for most applications)	
Phys	sical		
•	Materials	Enclosure: ASA or POM	
		Sensor: Sintered metal mesh encasing	
•	Weight	1300	g
•	Protection Rate	IP66 or IP68 and UV Protected enclosure	
Com	munication		
•	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, Conditiona	al
•	Parameter Configuration	Over-the-air via LoRaWAN® downlinks	
		Locally via wireless connectivity	
•	Firmware Update	Locally via Wireless Connectivity, Over The Air	

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NETWORK CONNECTION AND VISUALISATION

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)

Visualisation And Data Management

 Ellenex 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, TagoIO, AllThingsTalk Maker, HPE IoT and any other major IoT platform).

Ellenex 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 customisation available on request





Smart Building & HVAC



Food & Beverage



Mining & Construction

APPLICATIONS

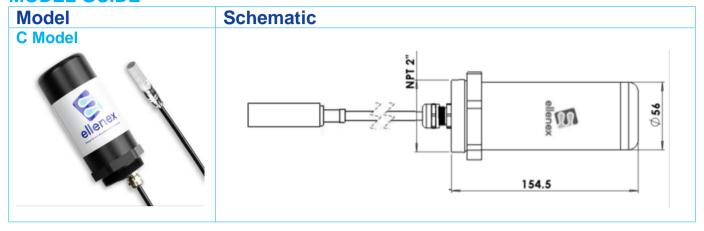
Moisture Monitoring Systems

Weather Stations

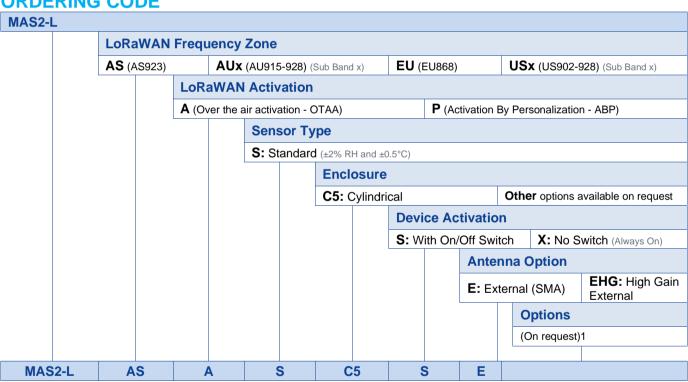
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MODEL GUIDE



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.

ellenex E: sales@ellenex.com
W: www.ellenex.com

Ver. 6.7-03/23