MRS2-L Spec-sheet





LoRaWAN Operated Low Power Tipping Spoon Rain Sensor

- Compatible with all LoRaWAN frequencies
- Compact and high accurate
- Designed to meet outdoor harsh environment
- Long-term durable performance in harsh environment
- Ultra-low power



TECHNICAL SPECIFICATION

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 Measurement principle 	Tipping Spoon		
 Rainfall Accuracy 	Up to 250mm/hr: ±3% of total or ± one tip of the		
<u> </u>	spoon(0.2mm) whichever is greater		
 Rain Rate Accuracy 	±5% for rain rates up to 250mm/hr		
 Rain Rate Resolution 	0.1mm (configurable)		
Power			
Power Supply	Built-in Replaceable Lithium Battery		
11,7	External Power (option)		
Rated Voltage	3.6 V		
Battery Lifetime	100,000+ readings and 20,000+ transmission		
·	(More than 10 years for most applications)		
Physical			
 Materials 	Enclosure: ASA or POM		
	Rain Collector: UV-stabilized ABS plastic		
 Weight 	2150 g		
 Protection Rate 	IP66 or IP68 and UV Protected enclosure		
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		
	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

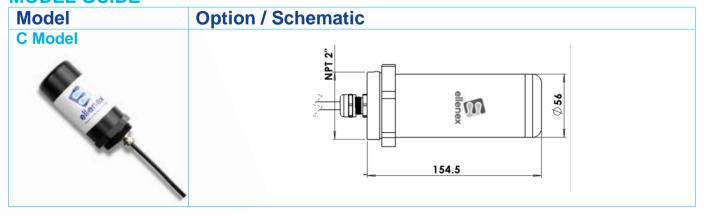
• Ellenex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagolO, 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



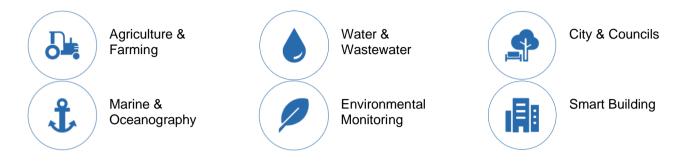
MODEL GUIDE



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INDUSTRIES

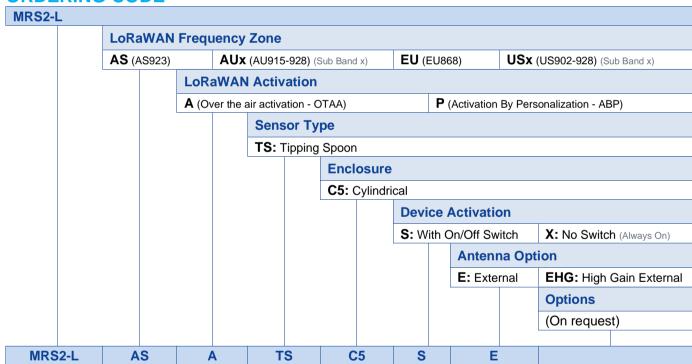


APPLICATIONS

Rain Monitoring Systems

Weather Stations

ORDERING CODE



Sample Product Code:

• MRS2-L-AS-A-TS-C5-S-E

LoRaWAN Operated Low Power Tipping spoon rain sensor, frequency of AS923, Over The Air Activated, with cylindrical enclosure, activated by on-off switch and external antenna.

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Integrated IoT Solutions

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

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