

MRS2-L



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 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			
,	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			
	Rain Collector: UV-stabilized ABS plastic			
Weight (g)	2150			
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			
Ŭ	Locally via wireless connectivity			
Firmware Update	Locally via Wireless Connectivity, Over The Air			
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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

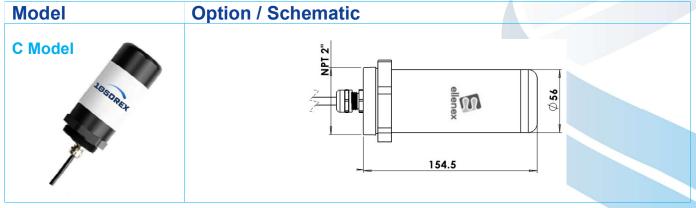
 10Sorex white label microservice platform, and Integratable to all main IIoT platforms directly or through the api (AWS, Azure, PTC ThingWorx, Bosch IoT, Cisco Jasper & Kinetic, Sierra Numerex, MathWorks, ThingSpeak, GE Digital Predix, LandisGyr, Siemens MindSphere, Cumulocity, myDevices, Ubidots, TagolO,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



MODEL GUIDE

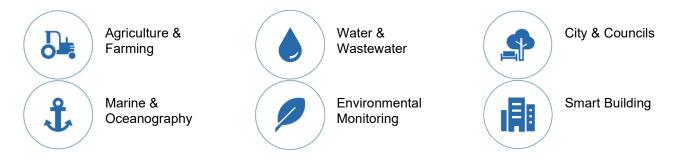






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INDUSTRIES

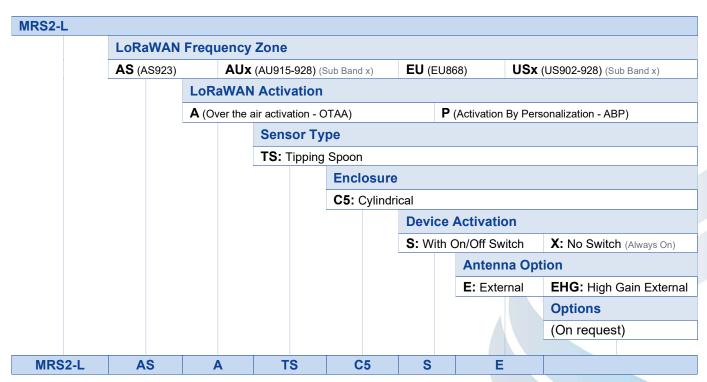


APPLICATIONS

· 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.

