



4-Channel LoRaWAN® Low Power Transmission Interface for Industrial Applications

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



TECHNICAL SPECIFICATION

Sensor

•	Interface Options (RM4-L covers a wide range of industrial sensors interfaces. Unique design of the interface gives ultimate flexibility of up to 4 sensor interfaces for more flexibility at lower cost)	 4 x 4-20mA 4 x Pulse 4 x Pt (100, 1000, 2 wire, 3 wire) 4 x mV 4 x SDI-12 4 x 0-10V_{DC} (or other customized options on request)
•	Electric Connection	1m cable, pin connection (or others on request)
•	Operation Temperature (°C)	-10 ~ +70
Powe	er	
•	Power Supply	Built-in Replaceable 3.6V Lithium Battery, External Power (option)
•	Rated Voltage to Sensors (VDC)	12
•	Battery Lifetime	Typ. 100,000+ readings and 20,000+ transmission (More than 10 years for most applications)
Physi	ical	
•	Materials	ASA
•	Weight (g)	450
•	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

NETWORK CONNECTION AND VISUALIZATION

Network Integration

Integratable to all main networks (Actility, Alibaba, Cisco, Digita, Everynet, Helium, Kerlink, kpn, Loriot, machine-Q, Objenious, Orange, Orbiwise, Proximus, Netmore, 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, 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



Multi-tenant



Integratable



Scalable



Dynamic alerting



Composable & API first



www.10sorex.com



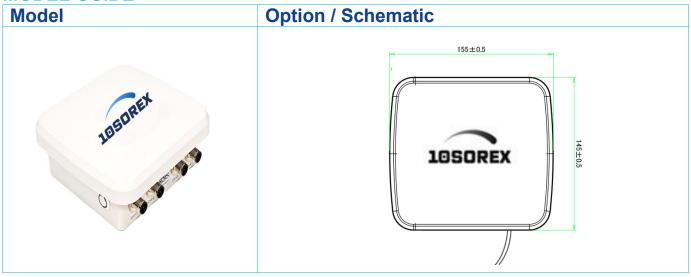
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MODEL GUIDE



INDUSTRIES



APPLICATIONS

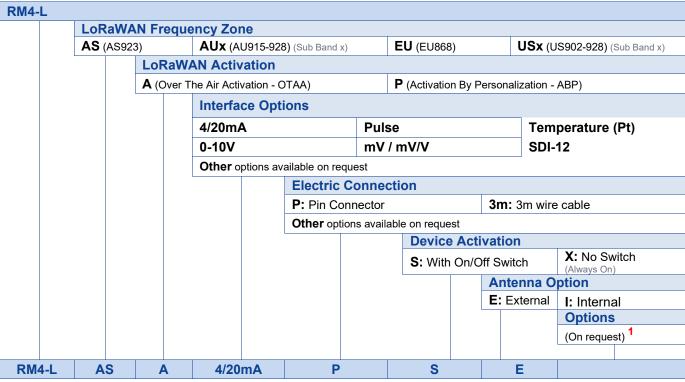
- Pump Performance Monitoring
- Water Pipeline Pressure Monitoring
- Pressurized System Monitoring
- Chiller and Cooling System Monitoring

- Hydraulic and Pneumatic Systems Monitoring
- Liquid Storage Level Monitoring
- Spraying System Monitoring
- Air Compressor Monitoring





ORDERING CODE



Sample Product Code:

• RM4-L-AS-A-4/20mA-P-S-E

4-channel LoRaWAN® sensor interface, frequency of AS923, Over The Air Activated, with 4 x 4-20mA sensor interface with 4pin connection activated by on-off switch and equipped with external antenna.

1) Product Options:

- **EP**: sensor with external power supply connector for 12V supply (only for E type enclosure, adaptor is not included)
- EPB: connector for 12V supply with internal battery backup (only for E type enclosure)
- HG: high-gain external antenna
- **WF**: Active WiFi module on device for communication/ firmware update through Mobile phone NFC module (only for E type enclosure)
- **HCB**: high-capacity battery (only for E type enclosure)

