



LoRaWAN® Low Power Pulse Counter and Meter Interface

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



TECHNICAL SPECIFICATION

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•	Interface	Pulse (Reed Switch) (or other customised options on request)		
•	Electric Connection	1m cable		
•	Liectific Confidential	(or other options on request)		
•	Operating temperature range (°C)	-10 ~ +70		
Power				
•	Power Supply	Built-in Replaceable Lithium Battery, External Power (option)		
•	Rated Voltage (V)	3.6		
•	Battery Lifetime	Typ. 500,000+ readings and 20,000+ transmission (More than 10 years for most applications)		
Phys	ical			
•	Materials	ASA or POM		
•	Weight (g)	350		
•	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, 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, Helium, 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, ALSO 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



Integratable



Dynamic alerting



Multi-tenant



Scalable



Composable & API first



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MODEL GUIDE

Housing

C Model:



C model comes with cylindrical shape housing suitable for battery operated applications with IP66 or IP68 rate and clamp mounting.

E Model:



E model comes with rectangular shape housing suitable for battery or external power operated applications with IP66 rate, and wall mounting.

Meter Interface



Type A
Size: 20mm
Pulse rate:1pulse/10lit

The Cold Water Multijet Meter Reed Switch is inserted into the face of the meter. The Reed Switch has no polarity.



Type B
Size: 50mm
Pulse rate:1pulse/ 5lit

The Cold Water PD Meter Reed Switch is inserted into the body of the meter. The Reed Switch has no polarity.



Type C Size: 15mm

Pulse rate:1pulse/10 lit

The Hot Water Multijet Meter Reed Switch is inserted into the face of the meter. The Reed Switch has no polarity.



Type D Size: 50mm

Pulse rate:1pulse/10lit

Suitable for Cold Water Woltman Meter. The Reed Switch has no polarity.

INDUSTRIES



Water & Environment



Agriculture & Farming



Smart Building & HVAC

APPLICATIONS

Water Supply Monitoring

Water Pipeline Leakage Monitoring



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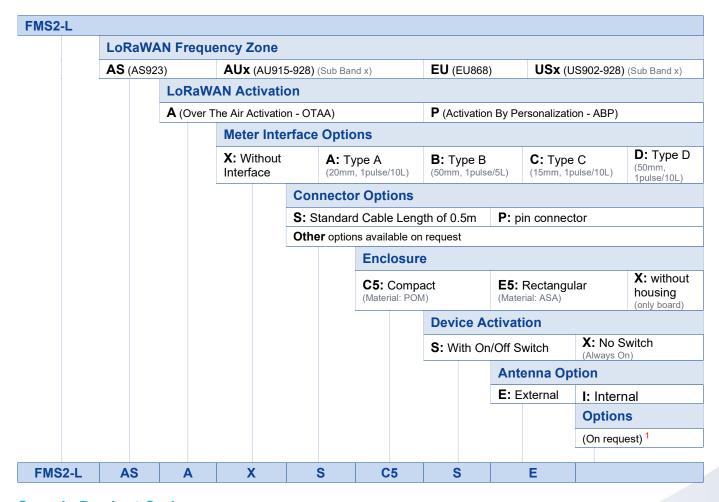
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ORDERING CODE



Sample Product Code:

FMS2-L-AS-A-X-S-C5-S-E

LoRaWAN® water meter interface (pulse reader), frequency AS923, over the air activated (OTAA), with compact housing, with standard cable connection, on/off switch and 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)
- Any other meter interface rather than pulse (Modbus, 4-20mA, etc.)

