



## Universal analog input recorder with a long-range LoRaWAN™ connectivity



Non contractual photo



### Presentation

The LoRa® SPY U recorder is designed to measure and record data coming from the following types of analog sensors: PT100, current (4-20 mA / 0-20mA), voltage (0-1V), counting or dry contact.

Data are sent to the JRI MySirius secure Cloud for optimal exploitation or directly to your servers (using webAPI or LoRa SPY U control protocol). It connects to the LoRaWAN™ network of telecom operators members of the LoRa Alliance™ or to a local network.

In case of thresholds excursions, real-time alerts are sent by SMS text message, mail or voice message.

### Technical features

Communication frequency	868MHz	915MHz	
Interface	Status LED lights, On / Off sensitive button, LCD display		
Memory	10 000 data points		
Radio range	Up to 16 km in open field		
Operating conditions	0°C to +50°C		
Measuring interval	Adjustable from 1 mn to 5mn		
Transmission & recording interval (internal memory)	Adjustable from 1 mn to 24 hrs		
Response time $\sigma_{90}$	Depending on sensor		
Protection	IP34		
Case	Polycarbonate – Food contact		
Dimensions and weight	87 x 64 x 25 mm / ~ 100 g		
Power supply	Replaceable lithium 3,6v battery		
Battery Lifetime	2 years		
Fixation	Fixing eyelets and integrated magnets		
Delivered with	Blue identification ring User manual on <a href="http://www.jri-corp.com">www.jri-corp.com</a>		
Compliance	CE, ROHS, FCC, EN 300 220, RCM		
Part Nr	Without battery	11810X	12277X
	With battery	11810E	12277E
	Australia Without battery	-	13624X
	Australia With battery	-	13624E



Connector for analog sensor



Fixing eyelets and integrated magnets



Replaceable battery



Protection case

### Benefits

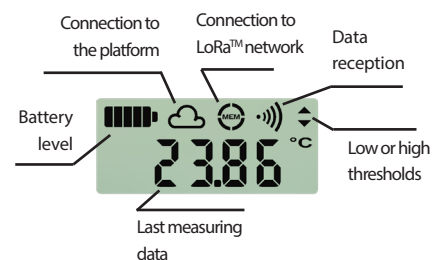
- **Easy-to-use**  
The recorder is ready-to-use and has status and alarm lights.



- **Excellent measurement accuracy**  
Reliability of a professional measuring instrument

- **Robust**

- **Simplified and optimized data exploitation on the JRI MySirius application**



Type of input	PT100	Current/ Voltage	Counting	Dry Contact**
Measurement range	-200°C to +300°C	0 to 20 mA or 4-20mA or 0-1V	0 to 65535	Dry contact or 0-3,3V max
Resolution	0,01°C	0,001 mA	1	-
Accuracy *	±0,2°C from -20°C to +50°C ±0,3°C from -80°C to -20°C and from +50°C to +140°C ± 0,5°C outside	± 0,01 mA	± 1	-

\* The MPEs described in this data sheet are only those of the LoRa® SPY U data logger to which it is necessary to add the MPE of the connected sensor to know the MPE of the complete chain.

\*\* Factory configuration

FT 11810 EN B