



LoRa® SPY Digital



Digital temperature recorder
with a long-range LoRaWAN™ connectivity
Simplified metrology services



Non contractual picture



Presentation

The LoRa® SPY Digital sensor measures and records temperature with an external removable probe. Data are sent to the secure JRI secure Cloud by the LoRaWAN™ network of telecom operators members of LoRa Alliance™ or by a local network. In case of threshold excursions, real-time alerts are sent.

The LoRa® SPY Digital is designed to be used with JRI digital probes which have an internal memory to store their calibration adjustment coefficients and other metrological data. The calibration can be realized in laboratory by a simple exchange of the probe without monitoring interruption of your thermo-sensitive products.

Technical features

Communication frequency	868 MHz	915 MHz
Interface	Status LED, sensitive button On/Off, LCD display	
Measurement	Depending on JRI digital probes	
Accuracy	Depending on JRI digital probes	
Memory	10 000 data points	
Radio range	Up to 16 km open field range	
Type of digital sensor	Temperature sensor Temperature/Humidity sensor	
Operating conditions	-30°C to +70°C	
Resolution	0.01	
Measuring interval	Adjustable from 1 mn to 5 mn	
Transmission and recording interval (internal memory)	Adjustable from 1 mn to 24 h	
Response time σ_{90}	< 5 mn (depending on used probe)	
Protection	IP40	
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	
Fixing	Fixing eyelets and integrated magnets	
Supplied with	Blue JRI identification ring User manual on www.jri-corp.com	
Compliance	CE, ROHS, FCC, EN 300 220, NF EN 12830 (when the 06556 probe is used in storage and transport applications)	
Standard calibration points	Depending on the JRI digital probe	

Benefits

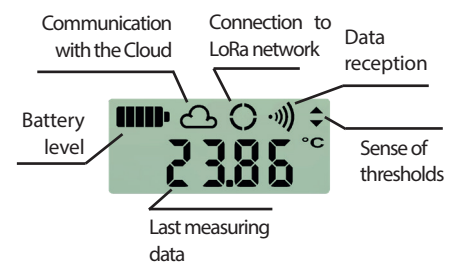
- **Easy-to-use**
The recorder is ready to-use and has operating and alarm lights
- **Excellent measurement accuracy**
- **Several modes of data exploitation**



Digital probe connection

Fixing eyelets and integrated magnets

Replaceable battery



PART NRS
11809 2E : LoRa SPY Digital without probe 868 MHz

Delivered without battery:
11809 2X : LoRa SPY Digital without probe 868 MHz
12276 EX : LoRa SPY Digital without probe 915 MHz

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JRI Digital probes compatibility

- 12350 : Digital temperature probe, 3m flat cable (incubator version available : 12350 I)
- 12348 : Digital temperature probe, 40cm round cable
- 12349 : Digital temperature probe, 70 cm flat cable (incubator version available 12349 I)
- 12347 : Digital temperature & humidity probe -30°C to +70°C and 0-100% RH
- 12204 : Digital Low temperature probe 0°C to -200°C

JRI SAS

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