



# 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.

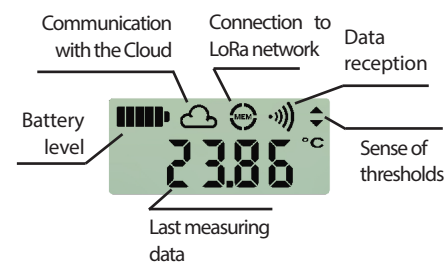
The LoRa® SPY Digital is designed to be used with JRI digital probes which have an internal memory to store their calibration adjustment coefficients and other metrological data. The calibration can be realized in laboratory by a simple exchange of the probe without monitoring interruption of your thermo-sensitive 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 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model)	
Transmission and recording interval (internal memory)	Adjustable from 1 mn to 24 h	
Response time $\sigma_{90}$	< 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 <a href="http://www.jri-corp.com">www.jri-corp.com</a>	
Compliance	CE, ROHS, FCC, EN 300 220, NF EN 12830 (when the 06556 probe is used in storage and transport applications), RCM	
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**



PART NRS  
11809E : LoRa SPY Digital without probe 868 MHz  
11809X : LoRa SPY Digital without probe 868 MHz (Without battery)  
12276E : LoRa SPY Digital without probe 915 MHz  
12276X : LoRa SPY Digital without probe 915 MHz (Without battery)  
13628E : LoRa SPY Digital without probe 915 MHz Australia  
13628X : LoRa SPY Digital without probe 915 MHz Australia (Without battery)

FT 11809 ENC

## JRI Digital probes compatibility

Ref. 12350: DIGITAL SENSOR EVOLUTION Digital temperature probe, flat cable 3m (also available in incubator version)

Ref. 12348: DIGITAL SENSOR EVOLUTION Digital temperature probe, round cable 40 cm

Ref. 12349: DIGITAL SENSOR EVOLUTION Digital temperature probe, flat cable 70 cm (incubator version)

Ref. 12347: DIGITAL SENSOR EVOLUTION Digital temperature and humidity probe -30°C to +70°C and 0-100% RH

Ref. 12204: DIGITAL SENSOR EVOLUTION Digital probe low-temperature 0°C to -200°C

Ref. 12350 4: DIGITAL SENSOR X<sup>2</sup> Digital temperature probe, flat cable 3m (-40° +80°C), with X<sup>2</sup> modeling

Ref. 12348 4: DIGITAL SENSOR X<sup>2</sup> Digital temperature probe, round cable 40 cm (-40° +80°C), with X<sup>2</sup> modeling

Ref. 12349 4: DIGITAL SENSOR X<sup>2</sup> Digital temperature sensor, flat cable 70 cm with IP67 connector (-40° +80°C) and X<sup>2</sup> modeling

Ref. 12204 4: DIGITAL SENSOR X<sup>2</sup> Digital probe low-temperature 0°C to -200°C with 3m cable and X<sup>2</sup> modeling

Ref. 12347 4: DIGITAL SENSOR X<sup>2</sup> TH Digital temperature and humidity probe (-30° +70°C / 0-100%RH), with X<sup>2</sup> modeling

JRI SAS

Logistics Pole / 2 Rue de la Voivre / PA Technoland / BP 21 / 25490 FESCHES LE CHÂTEL / France

SIRET 380 332 858 00030 - Ph. : +33 (0)3 81 30 68 04 / sales@group-mms.com

Head office: 16 Rue Louis Rameau / CS 90050 / 95872 BEZONS Cedex / France / APE 2651B / TVA FR 02 380 332 858

[www.jri-corp.com](http://www.jri-corp.com)