



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

Interface	Status LED, sensitive button On/Off, LCD display
Measurement	Depending on JRI digital probes
Accuracy	
Memory	10 000 data points
Communication frequency	868MHz
Radio range	Up to 16 km open field range
Type of digital sensor	Temperature sensor Temperature/Humidity sensor On or Off
Operating conditions	-30°C to +70°C
Resolution	0.01
Measuring interval	Adjustable from 1 mn to 12 h
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 to 4 years depending on use
Fixing	Fixing eyelets and integrated magnets
Supplied with	Battery, Blue JRI identification ring User manual on www.jri-maxant.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 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 : LoRa® SPY Digital without probe

JRI DIGITAL PROBES PART NRS
06556: Digital temperature probe -40°C to +80°C
10948: Digital temperature & humidity probe -30°C to +70°C and 0-100% RH
10981: Digital Low temperature probe 0°C to -200°C

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