



LoRa® SPY Reference



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



Non contractual photo



Presentation

A reference device designed to perform calibrations of connected loggers in the LoRa® SPY range, the LoRa® SPY Reference recorder measures and records temperature with high precision. Its metrological specificities allow it to be perfectly adapted to the monitoring of equipment with very limited temperature ranges.

Technical features

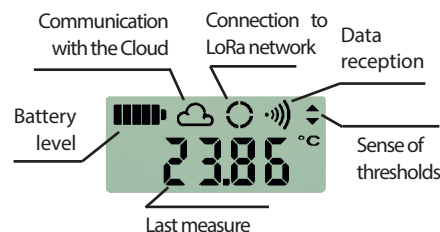
Communication frequency	868MHz	915MHz
Interface	Status LED lights, On/Off touch sensitive button, LCD display	
Measuring range	-196°C to +150°C	
Accuracy	±0,12°C from 0 to -30°C ±0,20°C from -30°C to 0°C and from +50°C to +150°C ±0,50°C out of this range	
Memory	10 000 data points	
Radio range	Up to 16 km in open field	
Sensor	External Class A PT 100 - Ø2,9mm Téflon® 3 meters length	
Operating conditions	-30°C to +70°C	
Resolution	0.01	
Measuring interval	Ajustable from 1 to 5 mn	
Transmission & recording interval (internal memory)	Ajustable from 1mn to 24 h	
Response time σ_{90}	~2 mn	
Protection	IP 65	
Case	Polycarbonate	
Dimensions and weight	87 x 64 x 25 mm / ~ 100 g (without probe)	
Power supply	Replaceable Lithium 3,6v battery	
Battery lifetime	2 to 4 years depending on use	
Fixation	Fixing eyelets and integrated magnets	
Supplied with	3 meters cryogenic probe, brown identification ring User manual on www.jri-corp.com	
Compliance	CE, ROHS, FCC, EN 300 220	
Standard calibration points	0°C; 30°C; 60°C	

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**



External temperature probe



Fixing eyelets and integrated magnets

Replaceable battery

PARTS NRS
12408 EU : LoRa SPY Reference
12408 EX : LoRa SPY Reference (without battery)
12409EX : LoRa SPY Reference 3m 915 (without battery)