

LoRa® SPY T2



Temperature recorder with a long-range LoRaWAN™ connectivity



Presentation

The LoRa® SPYT2 measures and records temperature thanks to an external probe. Data are sent to the JRI secure Cloud by LoRaWAN™ network of the telecom operators members of the LoRa Alliance™, or by a local network. In case of threshold excursions, real-time alerts are sent.

Designed to monitor thermo-controlled chambers, the LoRa® SPY T2 can be fixed outside thanks to its magnet allowing to visualize data measurement.

Technical features

Interface Status LED lights, On/Off touch sensitive button, LCD display Measurement range -50°C to +105°C #30°C to +50°C		Standard version	Incubator version	
#0.3°C from-20°C to +30°C ±0.2°C Memory 10 000 data points Communication frequency 868 MHz/ 915 MHz Radio range Up to 16 km open field range Sensor External Class A PT 100 - Ø5x20mm Resolution 0.01 Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Adjustable from 1 mn to 24 hrs Response time σ ₃₀ ~2 mn Operating conditions -30°C to +70°C Protection IP65 Case Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm / ~100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime Fixation Fixing eyelets and integrated magnets Blue and green identification ring ring User manual on www.jri-corp.com	Interface	Status LED lights, On/Off touch sensitive button, LCD display		
Memory Memory 10 000 data points Radio range Sensor Resolution Measuring interval (internal memory) Protection Protection Case Polycarbonate – Food contact Dimensions and weight Cable length Power supply Battery lifetime Fixation Supplied with Supplied with Power supply Blue and green identification rings 10 000 data points 460.2°C 10 000 data points 460.2°C 460.2	Measurement range	-50°C to +105°C	+30°C to +50°C	
Communication frequency Radio range Up to 16 km open field range External Class A PT 100 - Ø5x20mm Resolution 0.01 Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Response time \$\sigma_{00}\$ Poperating conditions -30°C to +70°C Protection Protection Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Blue and green identification rings Wellow identification rings User manual on www.jri-corp.com	Accuracy		±0.2°C	
Radio range Sensor External Class A PT 100 - Ø5x20mm 0.01 Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Response time σ ₉₀ -2 mn Operating conditions -30°C to +70°C Protection Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm / ~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Memory	10 000 data points		
Sensor External Class A PT 100 - Ø5x20mm Resolution 0.01 Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Response time G90 ~2 mn Operating conditions -30°C to +70°C Protection IP65 Case Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm /~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Communication frequency	868 MHz / 915 MHz		
Resolution 0.01 Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Adjustable from 1 mn to 24 hrs Response time σ₀0 ~2 mn Operating conditions -30°C to +70°C Protection IP65 Case Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm/~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification ring Yellow identification ring User manual on www.jri-corp.com	Radio range	Up to 16 km open field range		
Measuring interval Adjustable from 1 min to 24h (local network model) Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Adjustable from 1 mn to 24 hrs Response time Φ₀₀ ~2 mn Operating conditions -30°C to +70°C Protection IP65 Case Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm / ~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings Yellow identification ring User manual on www.jri-corp.com	Sensor	External Class A PT 100 - Ø5x20mm		
Adjustable from 15 min to 24h (operator network model) Transmission & recording interval (internal memory) Response time \$\sigma_{90}\$ Operating conditions Protection Protection Case Polycarbonate - Food contact Dimensions and weight Supplied with Power supply Battery lifetime Supplied with Adjustable from 1 mn to 24 hrs ~2 mn Poyor to +70°C Protection Poyor to +70°C Polycarbonate - Food contact 87 x 64 x 25 mm /~ 100 g Replaceable Lithium 3,6v battery Supplied with Blue and green identification rings Fixing eyelets and integrated magnets Blue and green identification rings Vellow identification rings	Resolution	0.01		
(internal memory) Response time \$\sigma_{90}\$	Measuring interval			
Operating conditions Protection Protection Case Polycarbonate – Food contact Dimensions and weight 87 x 64 x 25 mm / ~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com		Adjustable from 1 mn to 24 hrs		
Protection Case Polycarbonate – Food contact Bimensions and weight 87 x 64 x 25 mm /~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings Vellow identification rings	Response time σ_{90}	~2 mn		
Case Polycarbonate – Food contact Bimensions and weight 87 x 64 x 25 mm / ~ 100 g Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Operating conditions	-30°C to +70°C		
Dimensions and weight Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings Supplied with User manual on www.jri-corp.com	Protection	IP65		
Cable length 30 cm and 3 m Power supply Replaceable Lithium 3,6v battery Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Case	Polycarbonate – Food contact		
Power supply Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Dimensions and weight	87 x 64 x 25 mm / ~ 100 g		
Battery lifetime 2 years Fixation Fixing eyelets and integrated magnets Blue and green identification rings ring User manual on www.jri-corp.com	Cable length	30 cm and 3 m		
Fixation Fixing eyelets and integrated magnets Blue and green identification Yellow identification rings ring User manual on www.jri-corp.com	Power supply	Replaceable Lithium 3,6v battery		
Blue and green identification Yellow identification rings ring User manual on www.jri-corp.com	Battery lifetime	2 years		
Supplied with rings ring User manual on www.jri-corp.com	Fixation	Fixing eyelets and integrated magnets		
Compliance CE, ROHS, FCC, EN 300-320, NF EN 12830	Supplied with	rings	ring	
	Compliance	CE, ROHS, FCC, EN 300-320, NF EN 12830		
Standard calibration points -18°C/+5°C/+25°C +36C/+38°C/+50°C	Standard calibration points	-18°C/+5°C/+25°C	+36C/+38°C/+50°C	

Benefits

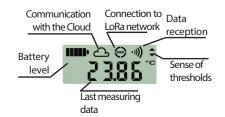
Easy-to-use The recorder is ready-to-use and has operating and alarm lights



- Excellent measurement accuracy
- Several modes of data exploitation



Replaceable battery External temperature





probe

Freezer Standard



1/2

FT 11804 EN B

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

Part Numbers	868 MHz		915 MHz		
	With battery	Without battery	With battery	Without battery	
STANDARD VERSION					
LoRa SPY T2 30cm	11804E	11804X	12269E	12269X	
LoRa SPY T2 3m	11805E	11805X	12271E	12271X	
INCUBATOR VERSION					
LoRa SPY T2 30cm	11804IE	11804IX			
LoRa SPY T2 3m	11805IE	11805IX			