

LoRa® SPY TH1



Temperature and hygrometry recorder with a long-range LoRaWAN[™] connectivity



Presentation

The LoRa® SPY TH1 recorder measures, records temperature, and hygrometry.

Data are sent to the JRI secure Cloud by the LoRaWAN[™] network of the telecom operators members of the LoRa Alliance[™], or by a local network. In case of thresholds excursion, real-time alerts are sent.

Discreet, the LoRa® SPY TH1 is particularly adapted for HVAC applications.

Technical features

Communication frequency868MHz915MHzInterfaceStatus LED lights, On/Off ouurs ensitive button, LCD displayMeasurement range-30°C to +70°C and -100% RH*AccuracyTemperature :±0.4°C from -20°C to +40°C and ±0.5°C out of this range Hygrometry between +15°C and ±25°C :±3% RH from 20% to 80% ±5% RH out of this rangeMemory10 000 data pointsMemory10 000 data pointsRadio rangeUp to 16 km open field rangeSensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)-530°C to +70°COperating conditions-30°C to +70°COperating conditions-30°C to +70°CDimensions and weight87 x 64 x 25 m/~100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and insgrated magnetsBattery lifetimeBattery, white identification ring User manual on www.jri-corp.comSupplied withBattery, white identification ring User manual on www.jri-corp.comStandard calibration points+2°C/+25°C/+38°C stow/50%/80%			
Measurement range-30°C to +70°C and 0 - 100% RH*AccuracyTemperature : $\pm 0.4°$ C from -20°C to +40°C and $\pm 0.5°$ C out of this range Hygrometry between +15°C and +25°C : ± 30 RH from 20% to 80% $\pm 5\%$ RH out of this rangeMemory10 000 data pointsRadio rangeUp to 16 km open field rangeSensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)-~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCF, ROHS, FCC, EN 300-320	Communication frequency	868MHz	915MHz
Instant NumberDescriptionAccuracyTemperature : ±0.4°C from -20°C to +40°C and ±0.5°C out of this range Hygrometry between +15°C and ±0.5°C out of this range ±5% RH out of this rangeMemory10 000 data pointsRadio rangeUp to 16 km open field rangeSensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Interface	Status LED lights, On/Off touch sensitive button, LCD display	
AccuracyHygrometry between +15°C and +25°C : ±3% RH from 20% to 80% ±5% RH out of this rangeMemory10 000 data pointsRadio rangeUp to 16 km open field rangeSensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate - Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Measurement range	-30°C to +70°C and 0 - 100% RH*	
Radio rangeUp to 16 km open field rangeSensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ_{90} ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight $87 \times 64 \times 25 \text{ mm} / \sim 100 \text{ gr}$ Power supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime 2 years Supplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Accuracy	Hygrometry between +15°C and +25°C: ±3% RH from 20% to 80%	
SensorDigital SENSIRION SHT25Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ ₉₀ ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Memory	10 000 data points	
Resolution0.01Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ_{90} ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Radio range	Up to 16 km open field range	
Measuring intervalAdjustable from 1 mn to 5 mnTransmission & recording interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ_{90} ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Sensor	Digital SENSIRION SHT25	
Transmission & recording interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ_{90} ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight $87 \times 64 \times 25 \text{ mm} / \sim 100 \text{ gr}$ Power supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime 2 years Supplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Resolution	0.01	
Interval (internal memory)Adjustable from 1 mn to 24 hrsResponse time σ_{90} ~5 mnOperating conditions-30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Measuring interval	Adjustable from 1 mn to 5 mn	
Operating conditions30°C to +70°CProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	3	Adjustable from 1 mn to 24 hrs	
ProtectionIP40CasePolycarbonate – Food contactDimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Response time $\sigma_{_{90}}$	~5 mn	
CasePolycarbonate – Food contactDimensions and weight $87 \times 64 \times 25 \text{ mm}/~ 100 \text{ gr}$ Power supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Operating conditions	-30°C to +70°C	
Dimensions and weight87 x 64 x 25 mm /~ 100 grPower supplyReplaceable Lithium 3,6v batteryFixationFixing eyelets and integrated magnetsBattery lifetime2 yearsSupplied withBattery, white identification ring User manual on www.jri-corp.comComplianceCE, ROHS, FCC, EN 300-320	Protection	IP40	
Power supply Replaceable Lithium 3,6v battery Fixation Fixing eyelets and integrated magnets Battery lifetime 2 years Supplied with Battery, white identification ring User manual on www.jri-corp.com Compliance CE, ROHS, FCC, EN 300-320	Case	Polycarbonate – Food contact	
Fixation Fixing eyelets and integrated magnets Battery lifetime 2 years Supplied with Battery, white identification ring User manual on www.jri-corp.com Compliance CE, ROHS, FCC, EN 300-320	Dimensions and weight	87 x 64 x 25 mm /~ 100 gr	
Battery lifetime 2 years Supplied with Battery, white identification ring User manual on www.jri-corp.com Compliance CE, ROHS, FCC, EN 300-320	Power supply	Replaceable Lithium 3,6v battery	
Supplied with Battery, white identification ring User manual on www.jri-corp.com Compliance CE, ROHS, FCC, EN 300-320	Fixation	Fixing eyelets and integrated magnets	
Supplied with User manual on www.jri-corp.com Compliance CE, ROHS, FCC, EN 300-320	Battery lifetime	2 years	
	Supplied with		
Standard calibration points +2°C/+25°C/+38°C and 20%/50%/80%	Compliance	CE, ROHS, FCC, EN 300-320	
	Standard calibration points	+2°C/+25°C/+38°C and 20%/50%/80%	

JRI, SAS

 $\label{eq:logistics} \begin{array}{l} \mbox{Pole} / 2 \mbox{ Rue de la Voivre} / \mbox{PA Technoland} / \mbox{BP 21} / 25490 \mbox{ FESCHES LE CHÂTEL} / \mbox{France SIRET 380 332 858 00030} - \mbox{Ph}: +33 (0)3 81 30 68 04 / \mbox{sales}@group-mms.com \end{array}$

Benefits

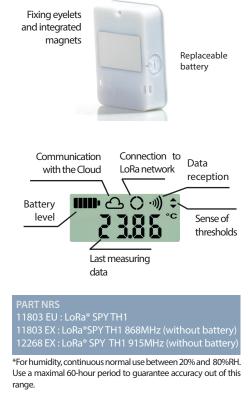
• Easy-to-use

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



• Excellent measurement accuracy

Several modes of data exploitation



www.jri-corp.com