



LoRa® SPY T4

LoRa Alliance Member

Temperature recorder
for pipe of hot & cold water systems
with a long-range LoRaWAN™ connectivity



Non contractual photo



Presentation

The LoRa® SPY T4 measures and records the temperature inside the pipes using an external surface PT100 probe. Designed for monitoring the HW or CW system, it can be fastened to the pipe with cable ties without damaging it. The reflector (optional) eliminates the influence of the outside temperature on the quality of the measurement inside the pipe. This option is strongly recommended to isolate the probe from the ambient temperature and significantly improve the accuracy of the measurement taken from the fluid inside the tube. 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.

Technical features

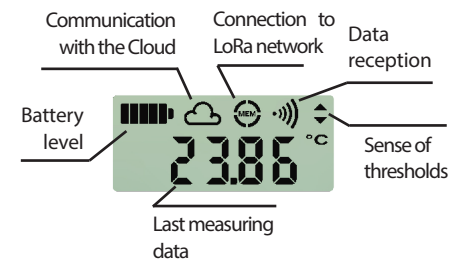
Communication frequency	868MHz	915MHz
Interface	Status LED lights, On/Off touch sensitive button, LCD display	
Measurement range	-40°C to +85°C	
Accuracy from 15°C to 25°C & 50°C to 60°C	±1°C on a copper pipe ±1°C on a C-PVC pipe	
Memory	10 000 data points	
Radio range	Up to 16 km open field range	
Sensor	External PT 100 probe	
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 & recording interval (internal memory)	Adjustable from 1 mn to 24 hrs	
Response time σ_{90}	~2 mn	
Protection	IP65	
Case	Polycarbonate – Food contact	
Dimensions and weight	87 x 64 x 25 mm / ~ 100 g	
Cable length	2 meters	
Power supply	Replaceable Lithium 3,6v battery	
Battery lifetime	2 years	
Fixation	Fixing eyelets	
Supplied with	Battery, black identification ring User manual on www.jri-corp.com	
Compliance	CE, ROHS, FCC, EN 300-220	
Standard calibration point	+55°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**



Non-removable external temperature probe



Option :
Reflector to strap the pipe and isolate the sensor from the ambient conditions (part nr 12413 : Reflector Pack for pipe >Ø20mm/<Ø120mm<)



Eyelets

Battery door

PART NRS
12398E : LoRa® SPY T4 868 MHz
12398X : LoRa® SPY T4 868 MHz (Whithout battery)
12797E : LoRa® SPY T4 915 MHz
12797X : LoRa® SPY T4 915 MHz (Whithout battery)