



NOTICE D'UTILISATION
USER MANUAL

Spy RF TH



06247D



JRI Maxant, société par actions simplifiée au capital de 4 000 000 €

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I. INTRODUCTION

Congratulations, you own a SPY RF TH ! This device is equipped with a built in temperature and humidity sensor which enables you to record the temperature and humidity of ambient air and to transfer wirelessly the recorded data by radio frequency to a PC.

a) Equipment

- 1 SPY RF TH
- 1 wall-mounting bracket
- 1 adhesive plaster
- 1 user manual

b) Symbols

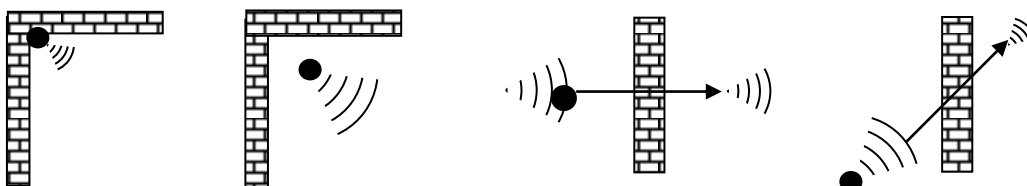
	RECYCLING : do not throw in a rubbish dump or in a domestic waste container. Comply to the regulation to throw away the device.
	CE MARKING :this equipment is certified to comply with the European regulation for the electric security, inflammability, disturbing radiation emission and immunity to surrounding electric disturbances.
	<p>FCC ID :W45 03330 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation In accordance with FCC requirements, changes or modifications not expressly approved by JRI could void the user's authority to operate this product. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.</p>

II. INSTALLATION RECOMMANDATIONS

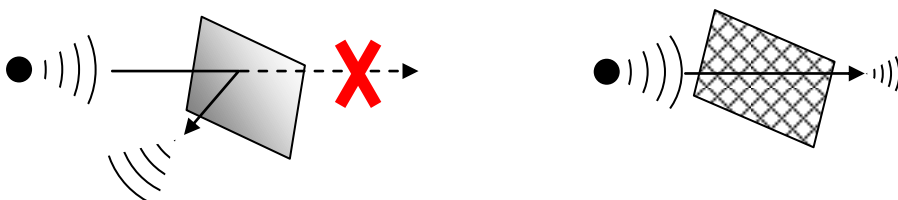
The Spy RF is a recorder of physical parameters able to communicate wirelessly with the operating software SIRIUS. The wireless communication is based on radio frequency. As we are daily in contact with it (radio, TV...) it is easy to think that it always works. These true if basic rules on positioning recorders are respected because wireless communication is subject to perturbations.

a) Perturbations sources

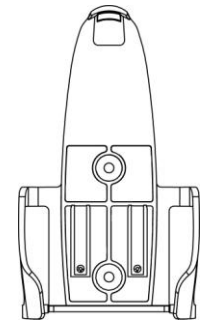
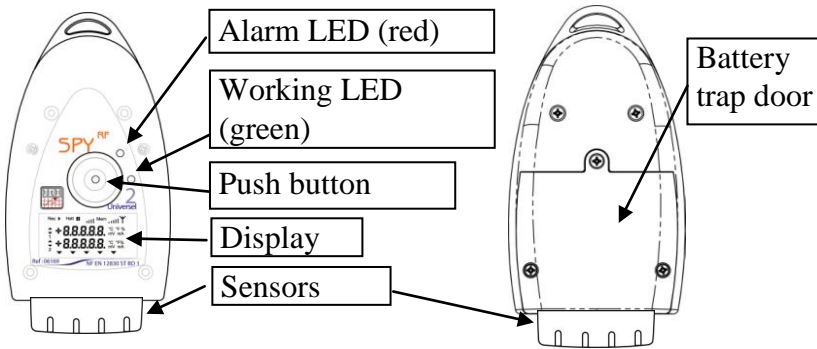
- Presence of obstacles in the way of the waves between the Spy RF Modem and the Spy Rf (wall, ceiling, person, furniture...) or close to the antenna.
- Obstacles thickness in the way of the waves. The absorption is more important in diagonal as perpendicularly



- Waves cannot pass through full metallic walls. On the other hand, a perforated wall allows the waves to pass with attenuation.

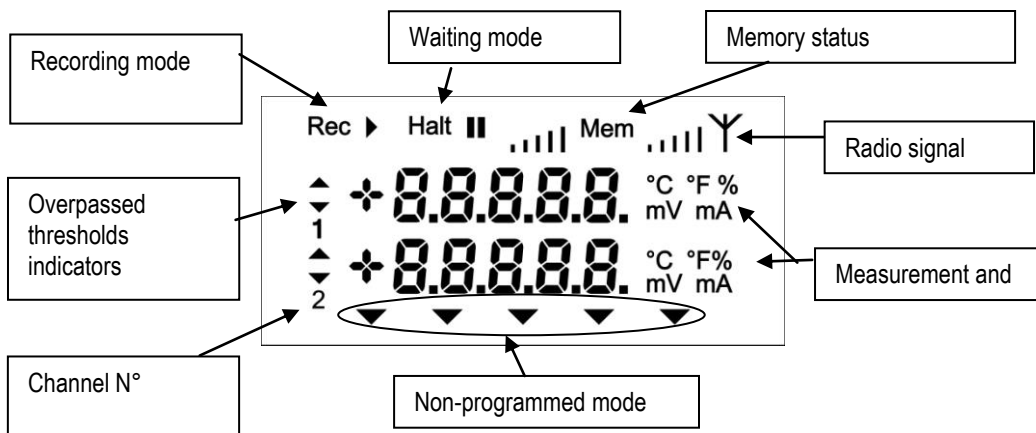


III. PRESENTATION



Wall-mounting bracket

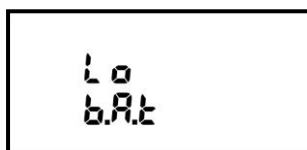
a) Display



b) Complementary information



Full memory. You must transfer the data to your PC.



Low battery. You must change the battery.

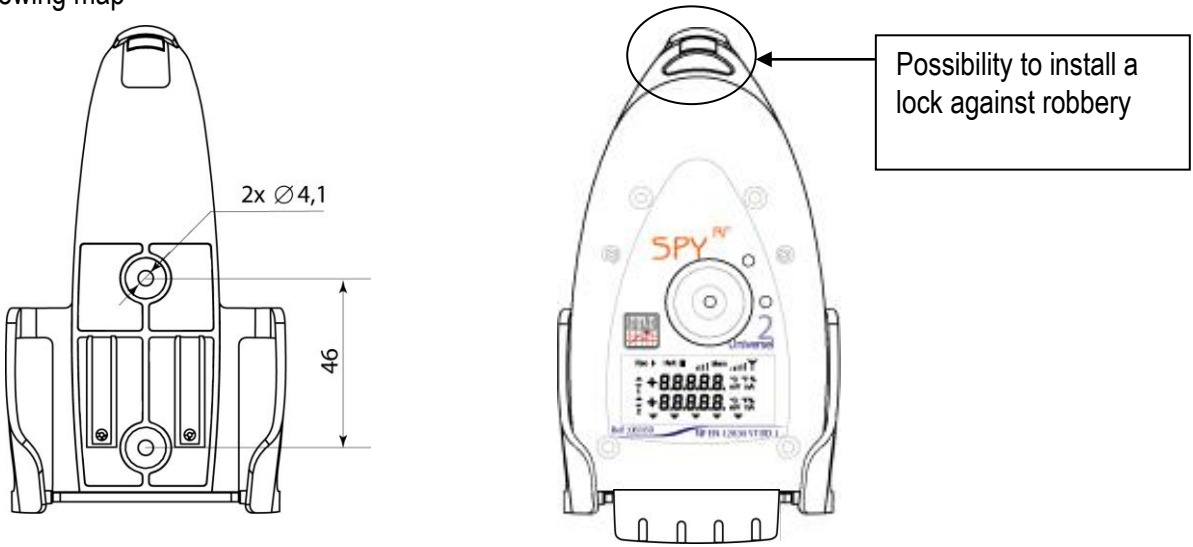
IV. INSTALLATION

a) Installation recommendations

- Place the devices at ~2m high and around 30 to 40cm from the ceiling to avoid obstacles and moving persons.
- If possible, place the Spy RF in central position regarding the Spy RF recorders.
- Try to place them preferably at sight of each other .
- On the wall, it is preferable to them aside by using the special bracket (ref 08512) of the catalog.
- Place the antenna above the top the monitored unit (fridge, incubator, oven, cold rooms...),.
- Never place the Spy RF horizontally.
- If some difficulties persist, it is possible to use Spy Rf RelaY (repeaters) or to connect another Spy RF ModeM to the Ethernet network (LAN).

b) Installation of wall-mounting bracket

The bracket can be fixed thanks to its adhesive plaster or it can be screwed.
Screwing map



V. USE

a) Stop

When you receive it, your SPY RF is stopped. Only the time clock is active. It can neither emit nor receive anything.

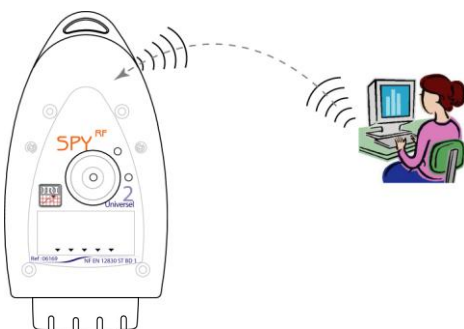
b) Start



c) Waiting mode

The SPY RF is ready to receive a configuration or to start a new recording session.
The symbol "Halt" is on: no measures in progress.
Use the pushbutton to start.

d) Configuration



SPY RF configuration is done from the Sirius software and then transferred into your SPY RF by radio frequency.

e) Measurement start

The SPY RF has 2 starting mode:

- automatic start
- manual start

f) Automatic start

Your SPY RF starts recording:

- automatically when the configuration is transferred,



Working LED (green):
2" => starting measurements
then flashes every 1 minute

It displays the temperature in °C degrees, channel number, measurement unit and memory status.

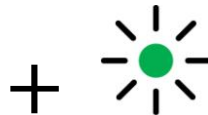
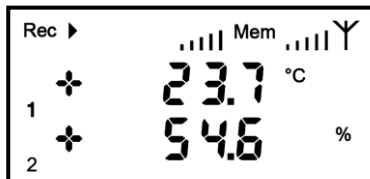
The green LED flashes every minute.

The temperature, threshold indicator, channel number and a red LED flashes every 15 sec in case the threshold limit is overpassed.

- at a programmed date and time:



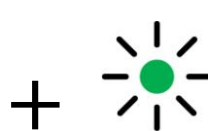
dd / mm / yy
hh / mm / ss



Working LED (green):
2" => starting measurements
then flashes every 1 minute

g) Manual start

- Press shortly on the pushbutton



Working LED (green):
2" => starting measurements
then flashes every 1 minute

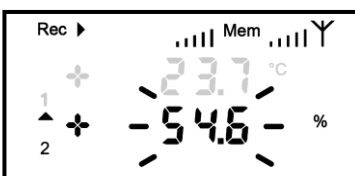
It displays the temperature in °C degrees, channel number, measurement unit and memory status.

The green LED flashes every minute.

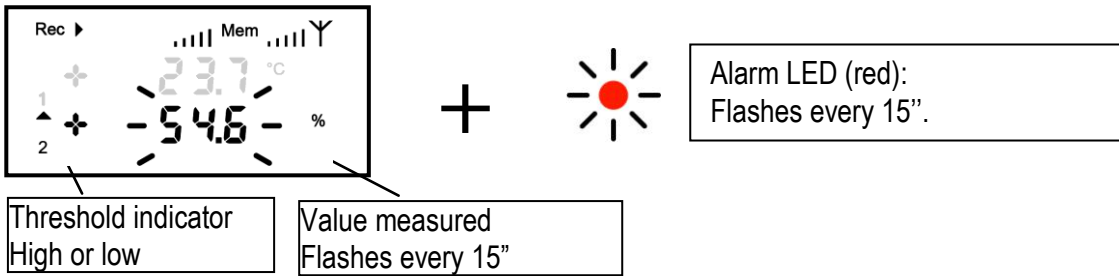
h) Alarm visualisation

The SPY RF is equipped with different alarm indicators, when a threshold limit is overpassed.

- Pre alarm



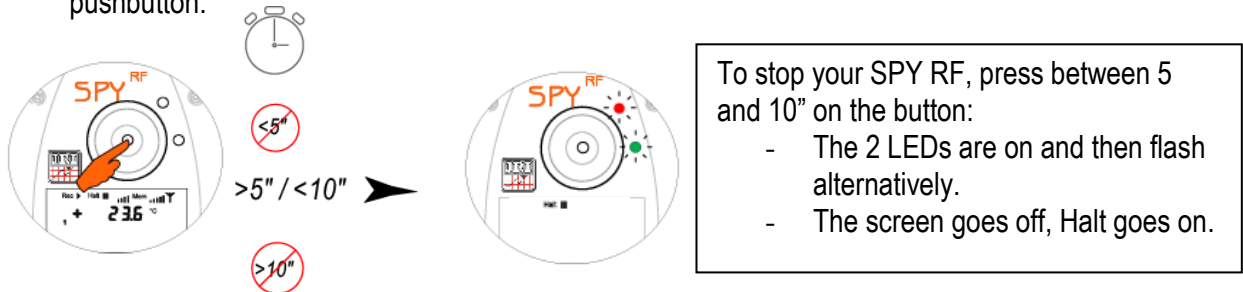
➤ Alarm



i) **Measurement stop**

Depending on the configuration, the SPY RF can stop recording or not. The different options are:

- Rolling memory: once the memory is full, the new values replace the old ones.
- Full memory: the recorder stops when its memory is full.
- With the software: you can put the SPY RF in standby mode with Sirius when you do not use your recorder.
- With the pushbutton: this option is valid only if the SPY RF is configured in transport mode with a start by pushbutton.

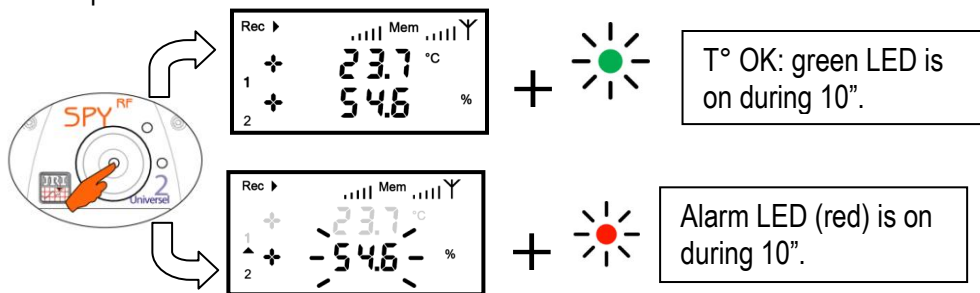


j) **Auto control or top zone**

The type of action depends on the SPY RF configuration.

TOP ZONE = Transport mode and AUTO CONTROL = Storage mode

This function enables you to customise an action of measurement check-up. You just have to press shortly on the pushbutton.



The action is recorded and will appear on the curve when you process the data with your software Sirius.

k) Leds and pushbutton actions functioning

The green led is on 2" when the measurement starts and then flashes each 1' in recording mode.

Specials functioning regarding the recorder using mode :

Device set up in storage mode

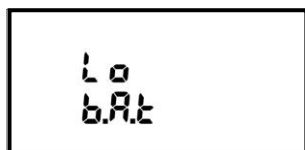
Mode \ Pushbutton pressing	< 5"	5" > pressing < 10"
OFF	-	The 2 leds are on and flash at the same time.
Starting measurements		
↓ Pushbutton	Green led 2" = beginning of measurements	-
↓ Delayed (date & time)	-	-
↓ Immediately	-	-
Measuring	Green led 10" = auto control	-

Device set up in transportation mode

Mode \ Pushbutton pressing	< 5"	5" <appui> 10"
Off	-	The 2 leds are on and flash at the same time.
Starting measurements		
↓ Pushbutton	Green led 2" = beginning of measurements	-
↓ Delayed (date & time)		The 2 leds are on and flash at the same time = Waiting for starting measurements
↓ Immediately	-	The 2 LEDs are on and then flash alternatively = ending measurements
Measuring	Green led 10" = Top zone	The 2 LEDs are on and then flash alternatively = ending measurements

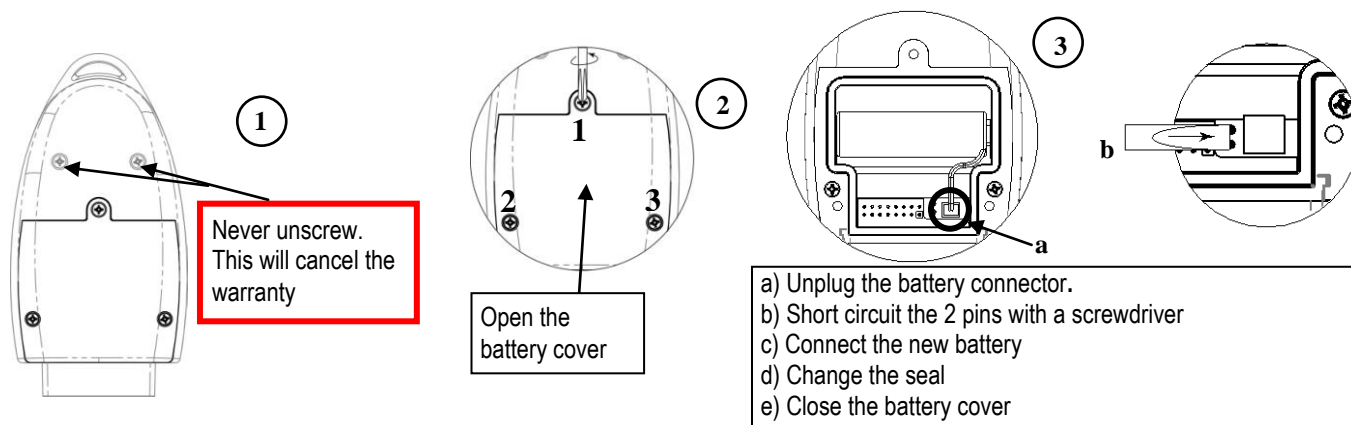
VI. BATTERY CHANGE

When the SPY RF battery has to be replaced, the LCD screen displays the following message:



DOWNLOAD THE MEMORY BEFORE CHANGING THE BATTERY. NEVER WAIT UNTIL THE BATTERY IS EMPTY OR THE DATA WILL BE DELETED.

To replace the battery, follow the instructions below:



BEWARE: KEEP THE BATTERY FAR FROM FIRE. DON'T TRY TO RELOAD IT OR TO SHORT-CIRCUIT IT ONLY USE BATTERIES SUPPLIED BY JRI (REF: 06569)

VII. RESET

If the device does not work anymore (cannot turn it on...), use the Reset function in the same way as the battery change.

VIII. FEATURES

FEATURES	SPY RF TH
Measurement range	-30°C +70°C and 0 to 100%HR not condensed
Number of channels	2
Type of input	Built in TH digital sensor
Accuracy	±0,4°C from -20 to +30°C and ±2% HR from 20 to 80%HR ±0,5°C out side and , ±3.5% HR from 10 to 20% and from 80 to 90% HR
Operating conditions	-30°C +70°C
Temperature for storage	-40°C +85°C
Memory size	1s to 90 min
Recording interval	20 000 measurements
Radio range (in free field)	1 km
Radio band	868MHz or 902 MHz
Battery lifetime	2 years
Dimensions	123x69x30mm
Protection level	IP34
CE ERM conformity	EN 301 489 / EN 61000 / EN 61010 EN 55022 / EN 300 220
Conformity FCC	FCC part 15

IX. WARRANTY

JRI Maxant products carry a one year warranty and guarantee against defects in their components or workmanship.

During this period if any product supplied by the Company proves on inspection to be defective, the Company will at its own option replace the same or refund to the Buyer the price of the product.

In no circumstances will JRI Maxant' liability exceed the price of the product paid by the buyer or the cost of replacement.

JRI Maxant shall not in any event be liable to the Buyer for any indirect or consequential loss or damage costs or expenses whatsoever which might arise out of or in connection with the supply of the product or its consequent use.

Consequently, the products warranty and guarantee specified above, does not cover damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification, or use with non-JRI Maxant' hardware/software. No warranty of fitness for a particular purpose is offered and the user assumes the entire risk of using the product.

In line with our policy of continuous development, we reserve the right to amend our product specification without prior notice.

X. MAINTENANCE CONTRACT

How to optimize your radio frequency installation?

RF measuring systems communicate by radio frequency. However, there may be several factors that can modify the radio ways already defined, such as moving from a building, adding walls, ... Radio frequency requires thus a periodical follow up performed by specialists.

That's why JRI Maxant has created maintenance contracts. We bring you a global solution which makes your maintenance easier. This overall service offer includes maintenance and also metrological services, which ensure you that your system is fully performant.

You won't worry about your devices maintenance anymore !

With this maintenance contract you will benefit for a minimal period of 2 years from the following advantages:

- material verification once or twice a year
- warranty extension
- telemaintenance
- telephone assistance **+33 (0) 892 680 933** (0,282 € HT/min)
- material replacement on site or by return in our manufacture
- metrological certificates: verification of measurement accuracy
- battery change
- access to new software versions and updates
- on-site intervention time within 3 open days after problem identification by our experts

XI. ENVIRONMENT PROTECTION

JRI Maxant recommends to our customers to throw away their measuring and recording devices which are unserviceable and/or beyond repair in a way that is appropriate to environment protection. Insofar as the production of waste cannot be avoided, it is best to re-use them by proceeding with adapted recycling depending on the material used and considering the environment protection.

RoHS Directive

The ROHS European Directive rules and limits the presence of hazardous substances in electrical and electronic equipments (EEE).

In the article 2, the scope of this Directive excludes "9. Monitoring and Control Instruments" and our products are part of this category.

Nevertheless, our company has decided to apply the whole dispositions of this Directive for all our new electronic devices which will comply to this 2002/95/CE Directive.