



## USER INSTRUCTIONS

13754E

# Nova SPY



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# I. INTRODUCTION

The NOVA SPY is a device that allows you to measure several physical parameters (T°, RH%, opening detection) depending on the model. It transmits data wirelessly, via 2.4GHz radio frequency, to the JRI-MySirius monitoring software hosted on the JRI cloud or on a private server through a Gateway (Nano Link, Relay/Alarm or Nanocell).

**a) EN 12830 and EN 13486 compliance:**

- EN 12830 compliance only with temperature sensors.
- EN 13486 compliance defining the procedures for periodic checks.



**b) Content**

- A recyclable cardboard box
- 1 NOVA SPY: Ambient T or Digital (without probe)
- 1 JRI generic leaflet
- 1 Protective case
- 1 Lithium A 3.6V battery (If model includes a battery)



**c) Symbols**

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**RECYCLING:** Do not dispose of household waste in a landfill or in a collection container. Comply with applicable legislation for disposal.

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**POWER SUPPLY:** This device is powered by a lithium type A battery in 3.6VDC (5 ch. V). (Saft 17500 type battery)

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**CE MARKING:** This device is certified to comply with European regulations for electrical safety, flammability, emission of disturbing radiation, and immunity to surrounding electrical disturbances.

**FCC ID: W4512525**

This device complies with Part 15 of the FCC Rules.

Its 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.

**NOTE 1:** The Dealer is not responsible for any changes or modifications that are not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

**NOTE 2:** This equipment has been tested and found to comply with the limits imposed on Class A digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is used in a commercial environment. This equipment generates, uses, and can transmit radio frequencies and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Use 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 or her own expense.

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**ISED ID: CAN ICES-003(A) / NMB-003(A)**

The licence-exempt transmitter/receiver contained in this device complies with InNOVation, Science and Economic Development Canada's RSS applicable to licence-exempt radio device. The operation is authorized under the following two conditions:

- 1) The device must not produce interference.
- (2) The device must accept any radio frequency interference experienced, even if the interference is likely to affect its operation.



## II. INSTALLATION RECOMMENDATIONS



Do not use the device in conditions other than those described in the technical specifications (Risk of fire or explosion).  
For any other use than the one mentioned, please contact JRI.

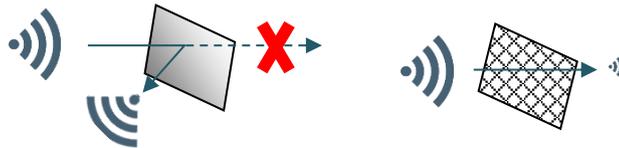
To ensure optimal radio transmission, several recommendations must be followed, as any wireless transmission is subject to disturbances.

### a) Sources of disturbance or mitigation

- Presence of obstacles between the NOVA SPY and the gateway (walls, furniture, people, etc.)
- The thickness of an obstacle. The attenuation is greater if the signal must pass through a wall diagonally.



- A solid metal wall is impassable by waves. However, an openwork metal wall still allows the waves to pass through by attenuating them.



### b) Positioning

- NOVA SPYs can be placed inside or outside the monitored units (-40° to +80°C).
- For installations outside the monitored units, a high position (2 m) should be preferred to avoid obstacles.
- Whenever possible, place the gateway in a central position regarding the locations of the NOVA SPYs.
- It is possible to use RELAY/ALARMS (repeaters) or connect another LINK to improve the radio coverage of a system.



To ensure your safety when installing or working on a device at this height, use a stable means in good working order, wear suitable and non-slippery shoes and install safety markings if the work takes place in a high-traffic area.

### III. PRESENTATION

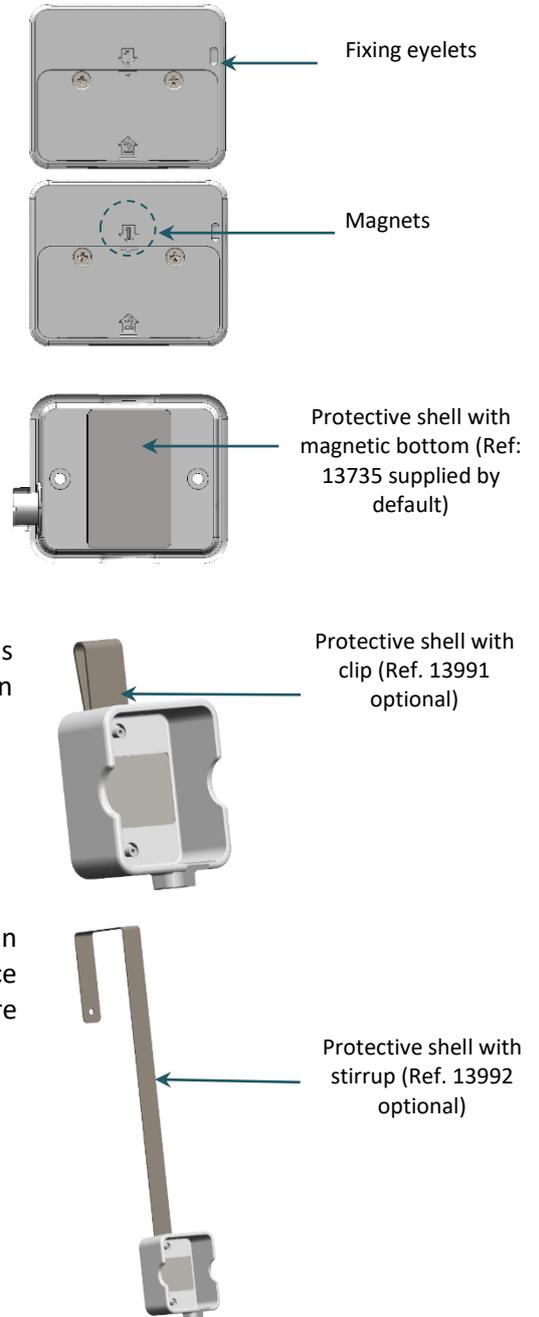
#### a) Casing



#### b) Fixation

NOVA SPYs can be attached in 4 different ways:

- Using a zip-ties
- Using an integrated magnet to attach them to metallic walls.
- Using a protective shell with magnetic bottom. IT can be stuck to a wall with double-sided tape (supplied). It can be ordered as an option.
- Using a clip to hang them inside the monitored units. This option facilitates maintenance operations while ensuring an optimal position for temperature measurement.
- Using a bracket to insert them into a chest freezer with an opening on its upper part. This option facilitates maintenance operations while ensuring an optimal position for temperature measurement.



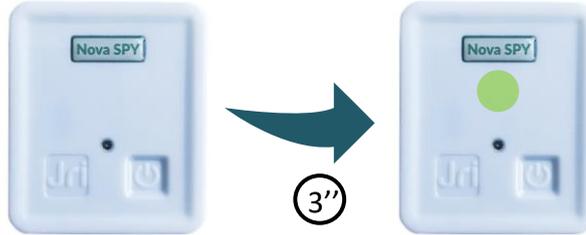
## IV. USAGE

NOVA SPY can only be used with JRI-MySirius software hosted on the JRI cloud or on a private server. The data is only transmitted by a Nano Link, a Nano Relay/Alarm or a Nanocell. Refer to the MySirius online help for configuring NOVA SPYs.

### a) Stop

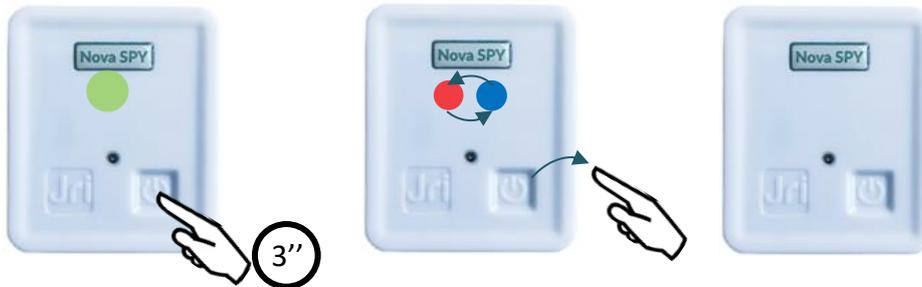
Upon receipt, the NOVA SPY is at a standstill. It can neither send nor receive.

### b) Activation



Once the battery is inserted, the device will automatically activate after 3 seconds. The NOVA SPY is self-declared in MySirius if it is within range of a Link. It starts measuring and transmitting its measurements to MySirius then flashes regularly depending on its status.

### c) Switch-off (Only possible if the device is not declared in MySirius)



Once the device is declared in MySirius, the touch button shutdown function is disabled to prevent "accidental" switch-offs when handling the devices. It will always be possible to reactivate this option in MySirius to be able to turn off the NOVA SPY device with the touch button.

### d) Touch button actions

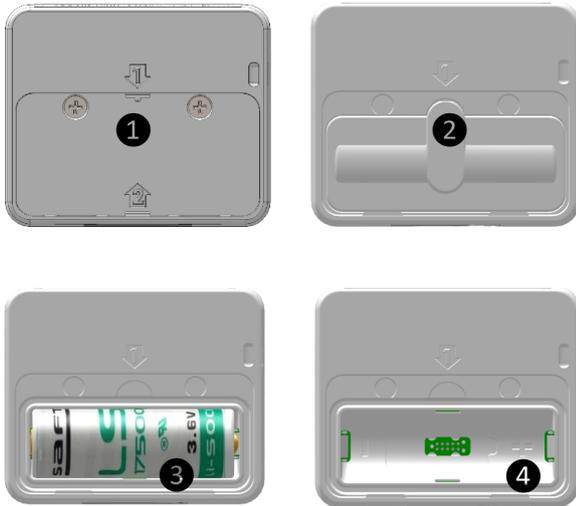
Mode \ Push Button	< 3"	Between 3" and 8"
Activation	-	● For 3"
Measure	<ul style="list-style-type: none"> <li>● 1" = OK</li> <li>● 1" = Technical Alarm</li> <li>● 3x1" = OK but paused</li> <li>● 1" = In Alarm</li> </ul>	Stop
Shutdown (If Programmatically Allowed)	-	



The use of corrosive products, active or flammable solutions (e.g. acid or petroleum) on JRI equipment is prohibited. The JRI equipment is designed for the realization of mappings and the monitoring of the temperature and humidity of thermostatic or climatic chambers within the limits described on the technical data sheets. For the maintenance of the appliances, please refer to section VI.

**For any use other than that mentioned above, please contact JRI.**

## V. BATTERY REPLACEMENT



### Removing the Battery

Remove the screws ① to open the battery lid with a Phillips screwdriver. Remove the gasket from the battery flap ②.

Remove the battery ③ from its housing.

### Battery installation

Place the new battery in accordance with the polarity ④, then replace the gasket and the battery lid.

Confirmation of the detection of the new battery is given by activating the red LED for a few seconds. The device will automatically restart after the LED is turned off.



KEEP THE BATTERY AWAY FROM FIRE, DO NOT ATTEMPT TO RECHARGE OR SHORT CIRCUIT. THE BATTERY TO BE USED MUST BE A 3.6V LITHIUM TYPE A BATTERY.

PREFERABLY USE THE BATTERIES PROVIDED BY JRI (REF 12761 : Saft LS17500 type A 3.6V|3.6Ah )

## VI. MAINTENANCE

Clean the appliance with soft, dry or slightly damp cloth. To remove stubborn dust, use a cloth impregnated with a diluted, non-abrasive detergent. Then wipe it thoroughly with a soft, dry cloth.

Never use benzene, thinner, alcohol or solvents of any kind, which may cause discoloration or deformation of surfaces.

## VII. CHARACTERISTICS

### a) Common features of the Ambient and Digital T models:

HMI	: 1 RGB LED + 1 Touch Button
Frequency band used	: 2.4GHz (from 2400 to 2483.5 MHz)
Electric power	: Average power - 0.3mW
Rated Current	: Maximum Power - 300mW
	: Average current - 80uA
	: Maximum current - 80mA
Maximum Radio Power	: 6 dBm
Memory	: 10,000 time-stamped measurements per measurement
Resolution	: 0.01
Size	: 64 mm x 54 mm x 28 mm
Operating Conditions	: -40°C to 80°C – 0 to 100% RH
Ingress protection	: IP68 for the NOVA SPY T ambient model and IP66* for the NOVA SPY Digital model. Operation inside buildings only *Protection valid only with a digital probe connected to the device
Package	: Polycarbonate – Food Contact
Power supply	: 3.6v lithium battery. Battery life up to 6 years depending on use. (Use at 23°C with optimized radio configuration)
Pollution / Altitude (Refer to IEC 60664)	: Pollution Degree - 2
Weight	: Operating altitude from 0 to 2000m
	: ~ 80 gr (with battery and without probe weight)

## b) Model-specific features:

### NOVA SPY T Ambient (internal probe)

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#### Product references:

13763 E: NOVA SPY T Ambient

13763 X: NOVA SPY T Ambient without battery

For more information, refer to the product web page.

### NOVA SPY Digital (for JRI digital probes)

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#### Product references:

13756 E: NOVA SPY Digital

13756 X: NOVA SPY Digital without battery

For more information, refer to the product web page. [HERE](#)



Connect only JRI probes to the product or risk of irreversible damage.

## VIII. ENVIRONMENTAL PROTECTION

JRI recommends that its customers dispose of their unusable and/or irreparable measurement or recording equipment in a manner that is appropriate for the protection of the environment. To the extent that the generation of waste cannot be avoided, it should be reused by recycling in a way that is best suited to the materials in question and to the protection of the environment.

#### RoHS Compliance:

The European Directive 2011/65/EU of 15 November 2011 restricts the use of certain hazardous substances in electrical and electronic equipment.

Based on the information provided by its suppliers, JRI indicates that the products manufactured or resold by JRI are RoHS compliant and can be ordered as such at the time and after the date of issue of the RoHS certificate of conformity. Confirmation of compliance status by our suppliers implies that the products do not contain controlled substances in concentrations exceeding the values set by Article 4(1) of the RoHS Directive or that the removal of controlled substances is not technically possible and that the presence of these substances in concentrations higher than those set by the Directive is permitted in particular applications that are listed in the Annex to the RoHS Directive.

JRI has taken all steps to validate the information provided by suppliers regarding the absence of controlled substances.



Recycling: To avoid the risk of explosion, please do not dispose of NOVA SPY type products in the waste, burn or crush them.