jri 13754A Nova Data Logger Instructions

Contents

jri 13754A Nova Data Logger

Specifications

- Product Name: Nova SPY
- Model Number: 13754A
- Measurement: Temperature (T), Humidity (HR%), Lux
- Wireless Transmission: Radio Frequency (2.4GHz)
- Compliance: EN 12830 (with temperature sensors), EN 13486
- Certifications: CE Labeling

Product Description Control Unit

- Status LED
- Opening detector (optical sensor)
- Touch-sensitive button
- T1/TH model
- Digital model
- Digital probe

Mounting

- Mounting eyelets (All models)
- Battery door (All models)
- Label and product code
- Magnets
- Protective shell with magnetic base
- Protective shell with clip
- Caliper with a protective shell

Installation Recommendations To ensure optimum radio transmission, follow these recommendations:

- **Positioning**
  For safety during installation on a high device, use proper equipment, wear non-slip shoes, and install warning signs if needed.

Operation
The Nova SPY is activated after inserting the battery and automatically starts transmitting data to MySirius.

- **Stop**
  The Nova SPY is turned off when delivered.
- **Activation**
  Once the battery is inserted, the device activates after three seconds and starts measuring and transmitting data.

FAQs

- **Q: Is the Nova SPY compatible with all types of monitoring software?**
  A: The Nova SPY is compatible with the JRI-MySirius monitoring software.
- **Q: What should I do if the Nova SPY does not connect to MySirius?**
  A: Check the battery, positioning, and interference sources that may affect the wireless transmission.
- **Q: Can the Nova SPY be used without a Link?**
  A: No, the Nova SPY requires a Link for configuration and data transmission.

USER GUIDE

Nova SPY

INTRODUCTION

The Nova SPY is a device that measures several physical quantities (T/HR%/Lux depending on the model) and transmits the data wirelessly, by radio frequency (2.4GHz), to the JRI-MySirius monitoring software hosted on the JRI cloud or on a client server via a Nano Link, Relay/Alarm or Nanocell.
The Nova SPY complies with EN 12830 only with temperature sensors and is compatible with EN 13486, defining periodic verification procedures.

Product contents

- 1Nova SPY
- 1 JRI User guide
- 1 Protective shell
- 1 Lithium battery A 3,6V [In versions including a battery]

Symbols

	RECYCLAGE :
	**Power source:** this device is powered by a 3.6VDC type A lithium battery (§ ch. V). (Battery like Saft 17500)
	**CE LABELING**: this device is certified to conform to European regulations for electrical safety, flamm ability, disruptive electromagnetic emissions, and immunity to environmental electrical disturbances.
	**FCC ID :** W45 12525 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditio ns: 1. This device may not cause harmful interference. 2. This device must accept any interference received, including interference that may cause undesire d operation In accordance with FCC requirements, any changes or modifications not expressly approved by JRI c ould void the user's authority to operate this equipment. **NOTE:** This equipment has been tested and found to comply with the limits for a Class A digital devic e, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection a gainst harmful interference when the equipment is operated in a commercial environment. This equip ment generates, uses and can radiate radio frequency energy and, if not installed and used in accord ance with the instructions, may cause harmful interference to radio communications. Operation of thi s 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.

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

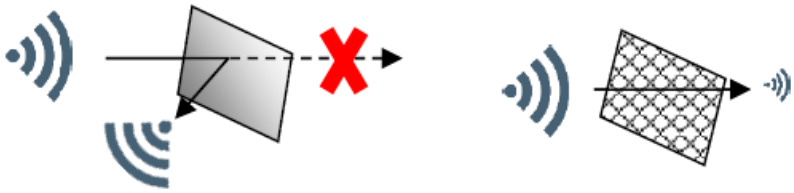
INSTALLATION RECOMMENDATIONS

To ensure optimum radio transmission, a number of recommendations must be followed, as all wireless transmissions are subject to interference.

Sources of disturbance or attenuation

- The presence of obstacles in the wave path between the Nova SPY and the LINK (wall, furniture, people…) or near the antenna.
- The thickness of an obstacle in the wave path. The attenuation is greater diagonally than perpendicularly.
-

A solid metal wall will not allow radio transmission. A perforated metal wall will allow waves to pass while attenuating them.



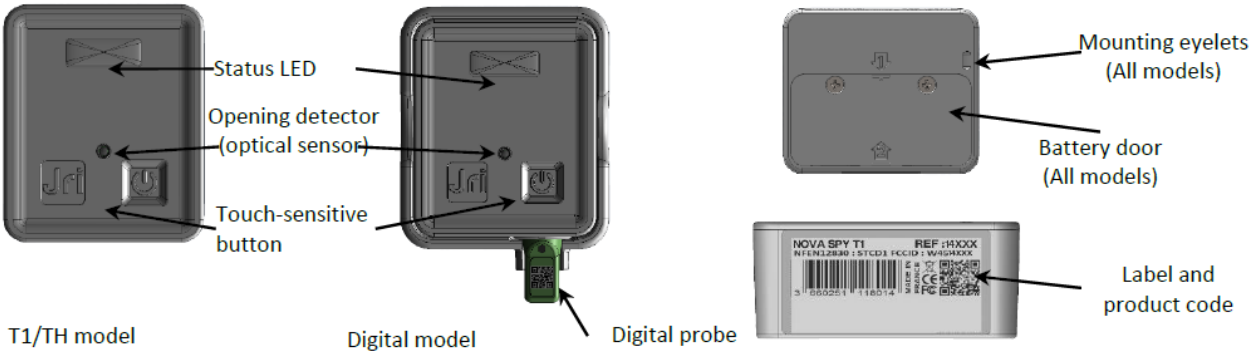
Positioning

- Nova SPYs can be placed either inside or outside the speakers.
- For installations outside enclosures, prioritize the top of the walls to avoid obstacles and the passage of people.
- If possible, position the LINK centrally in relation to the measurement points.
- Try to position them preferably within view.
- You can use RELAY/ALARMS (repeaters) or connect another LINK to improve radio coverage.

To ensure your safety during installation or intervention on a device placed in a high position, use proper equipment that is in good condition and provides adequate stability, wear appropriate, non-slip shoes, and install warning signs around the work area if the intervention takes place in an area of foot traffic.

PRODUCT DESCRIPTION

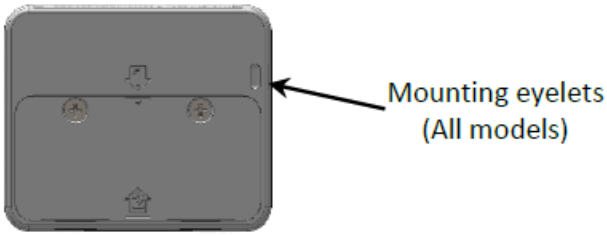
Control unit



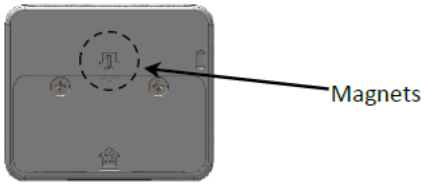
Mounting

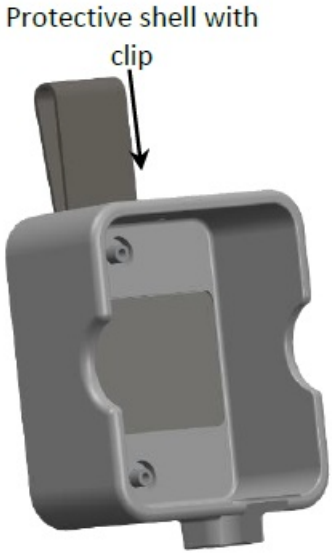
Nova SPYs can be attached in 4 different ways

- Using a tie wrap to attach it to the monitored product

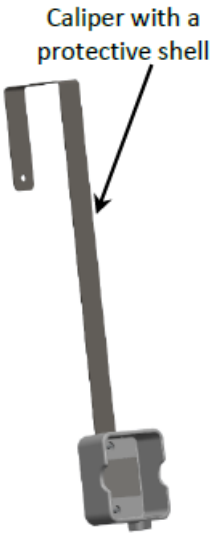


- **Magnetically:** Nova SPYs feature an internal magnet for attachment to magnetic metal walls. A protective shell with a magnetic base is available as an option (Part nbr: 13735).





- For example, use a clip to attach them to the grids of a positive enclosure. This option allows them to be as close as possible to the products to be monitored and facilitates maintenance operations. A protective shell with a magnetic base and clip is available as an option.
- With a caliper for insertion into a chest-type freezer with an opening at the top. This option facilitates maintenance operations while guaranteeing an optimum position for temperature measurement. A protective shell with a magnetic base and bracket is an option.



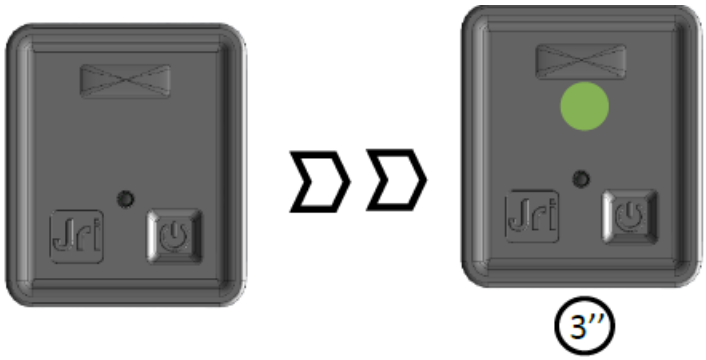
OPERATION

The Nova SPYs can only be used with My Sirius software hosted on a web platform and a Link. For Nova SPY configuration, please refer to the MySirius online help.

Stop

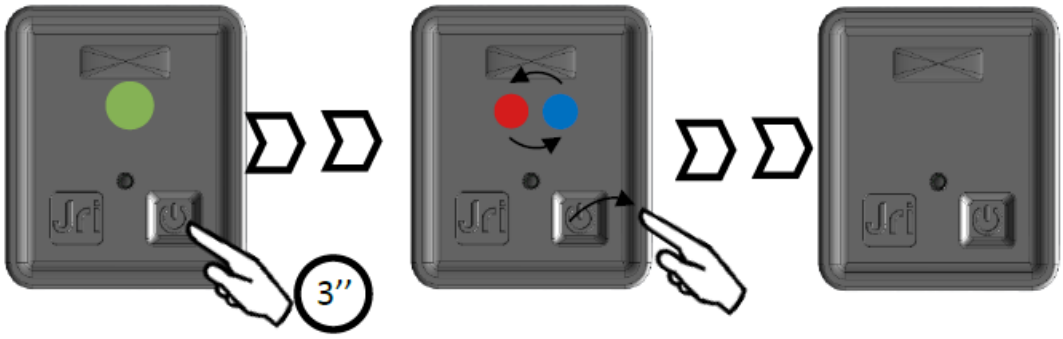
As delivered, the Nova SPY is turned off. It can neither emit nor receive signals.

Activation



Once the battery is inserted, the device is activated after three seconds. Once activated, the Nova SPY automatically declares itself in MySirius if it is in contact with a Link. It starts measuring and transmitting its readings to MySirius as it goes along, then flashes regularly according to its status.

Turning Off (Only possible if the device is not registered in MySirius)



Actions on the touch button

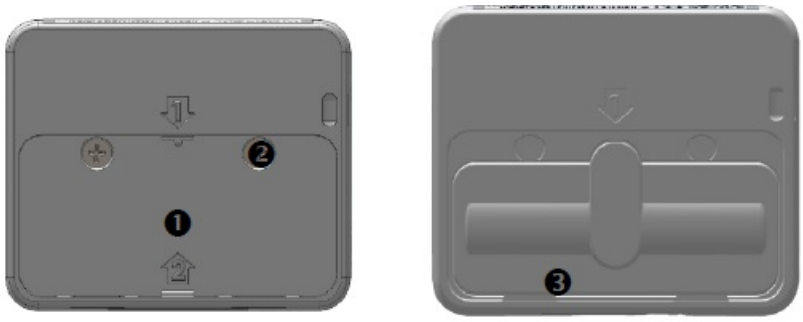
Mode \ Press sensitive button	< 3"	> 3''	>8''
Activation	-	● during 3''	● during 3'' The Nova SPY remains active
Measurment	● 1'' = OK ● 1'' = Technical alarm ✳ 3x1'' = OK but paused ● 1'' = In alarm state	Off	
Off (If authorized by program)	-		

If shutdown authorization is not configured in MySirius, or if the Nova SPY is registered to a MySirius account, it will be impossible to shut down Nova SPYs.

Using active, corrosive or flammable products or solutions (e.g. acid or petroleum) on JRI equipment is prohibited. JRI equipment is designed to map and monitor the temperature and humidity of thermal or climatic enclosures within the limits described in their data sheets.
For maintenance of these devices, please refer to the dedicated section. For uses other than those mentioned, please contact JRI.

Removing the battery
Open the battery door

1. with a suitable object (Phillips screwdriver), and remove the screws
2. Remove the battery door seal
3. Remove the battery
4. from its lodging.



Replacing the battery
Put the new battery **2** in place respecting the polarity **5**, replace the battery door seal & the battery door.
Confirmation that the new battery has been detected is given by the activation of the red LED for a few seconds.
The device restarts automatically when the LED goes out.

KEEP THE BATTERY AWAY FROM FIRE, DO NOT ATTEMPT TO RECHARGE IT OR SHORT-CIRCUIT IT THE BATTERY MUST BE A LITHIUM 3.6V TYPE A BATTERY.
USE PREFERABLY THE BATTERIES* SUPPLIED BY JRI (REF: 12761)

Recommended batteries: Saft LS17500 type A 3.6V|3.6Ah

MAINTENANCE

Clean the unit with a soft, dry cloth, or one slightly dampened with water. To remove stubborn dust, use a cloth impregnated with a diluted, non-abrasive detergent. Then wipe thoroughly with a soft, dry cloth. Never use benzene, thinner, alcohol or solvents of any kind, which may cause discoloration or deformation of surfaces. u une déformation des surfaces.

TECHNICAL FEATURES

Common features:

HMI	• 1 RGB LED + 1 touch-sensitive button
Frequency band	• 2.4GHz (from 2400 to 2483.5 MHz)
Power consumption Nominal curr ent	• Average power – 0.3mW • Maximum power – 300mW • Average current – 80uA • Maximum power – 80mA
Maximum Radio Power	• 6 dBm
Internal memory	• 10 000 timestamped measures per channel
Resolution	• 0.01
Dimensions	• 64 mm x 54 mm x 28 mm
Operating conditions	• -40°C to 80°C – 0 to 100% HR
Protection class	• IP68* – For indoor use only *Protection valid only with a digital probe connected to the device*
Case	• Polycarbonate – Food contact
Power source	• Lithium A 3.6V battery. Battery life up to 6 years depending on use (O perating at 23°C with an optimized radio configuration)
Pollution / Altitude **(refer to IEC 60664 guideline))**	• Pollution rate – 2 • Operating altitude from 0 to 2000m
Weight	• ~ 80 gr (with battery and without probe weight)

Specific features per product :

Nova SPY T1 Ambient temperature (internal probe)

For more information, please refer to the product web page.

Nova SPY Digital

For more information, please refer to the product web page.

Only connect JRI probes to the product, otherwise irreversible damage may occur.

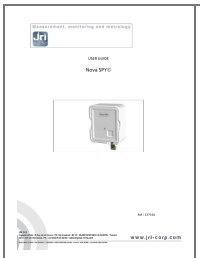
ENVIRONMENTAL PROTECTION

JRI recommends that its customers dispose of unusable and/or irreparable measuring or recording equipment in an environmentally sound manner. Insofar as the production of waste cannot be avoided, it should be reused using the recycling process best suited to the materials in question and to the protection of the environment.

RoHS Directive
The European RoHS Directive regulates and limits the presence of hazardous substances in electronic and electrical equipment (EEE).
Article 2 of this Directive excludes “Monitoring and control instruments”, which include the products manufactured by JRI. Nevertheless, JRI has decided to apply all the provisions of this Directive to its new electronic products, which will comply with the above-mentioned Directive 2002/95/EC.

Recycling: To avoid any risk of explosion, please do not dispose of the Nova SPY in the garbage, do not burn it and avoid crushing it. Please follow these safety instructions carefully.

Documents / Resources

	**jri 13754A Nova Data Logger** [pdf] Instructions 13754A Nova Data Logger, 13754A, Nova Data Logger, Data Logger, Logger

References

- **User Manual**