



USER MANUAL

## SiriusBox



Rev3

# SOMMAIRE

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## I. INTRODUCTION

The SiriusBox has been specially designed for transmitting data received from the SPY RF recorders to the SiriusWeb platform. The SPY RF recorders monitor and record data and transmit the data to the SiriusBox. The SiriusBox in its turn transmits the data to the SiriusWeb platform.

## II. CONTENTS OF THE PACKAGE

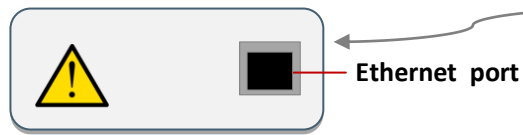
- Your package should contain the following items:

GPRS Version Ref. 08870-10026	Ethernet Version Ref. 11140-11142-11144	Ethernet POE Version Ref. 11143-11145	WiFi Version réf. 11146-11147-11148
1 SiriusBox	1 SiriusBox	1 SiriusBox	1 SiriusBox
1 Mount Wall Bracket	1 Mount Wall Bracket	1 Mount Wall Bracket	1 Wall mounting bracket
1 AC Power Adapter	1 Ethernet cable	1 Ethernet cable	1 Power supply
2 pcs of double-sided tape	1 AC Power Adapter	2 double sided tape	2 Velcro adhesive strips
1 User Manual	2 double sided tape	1 User Manual	1 User guide
	1 User Manual		

### III. HARDWARE FEATURES

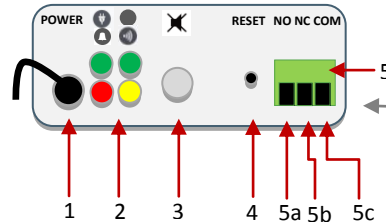
- **Interface Description**

The **Ethernet port** is located on the top panel of the Ethernet SiriusBox











The **bottom panel**, for all versions, contains the following elements:




1. AC Power adapter input
2. 4 status LEDs
3. Stop Alarm button
4. Reset button
5. Relay output
  - a) NO (normally open)
  - b) NC (normally closed)
  - c) Common








- **LEDs description**

LED	Activity	Description
Power supply 		When plugging the AC Power adapter into the wall outlet , the first green LED light turns on indicating that the SiriusBox is powered
Web Connection 		The second green LED light turns on 10 to 30 seconds later indicating that the connection with the SiriusWeb platform has been established.
Radio transmission 		The yellow LED light indicates that data are being transmitted between the SPY RF recorders and the SiriusBox.
Alarm 		The red LED light indicates that an alarm has been triggered

- **Button function**

Button	Activity	Description
Stop Alarm 		The alarm sound emitted by the SiriusBox can be turned off by pressing the « Stop Alarm » button.
Reset		You can reset the SiriusBox by inserting the end of a paper clip or a similar object into the hole located at the bottom of the device.

- **Table of symbols**

	<p><b>RECYCLING</b> : do not throw into a landfill nor discard with normal household waste. Comply with current legislation on Waste Electrical and Electronic Equipment.</p>
	<p><b>POWER SUPPLY:</b> This device is powered by an AC Power Adapter (230 VAC). The power adapter is the cutting means of the power supply and should be easily accessible after the installation. The AC Power Adapter should be protected from water and humidity. Comply with security regulations use of currentSe conformer aux règles de sécurité de l'utilisation du courant électrique. Use an electrical installation complying with the current Electrical Safety Regulations.</p>
	<p><b>CE MARKING</b> : this equipment is certified to comply with the European regulation for electric security, inflammability, disturbing radiation emission and immunity to surrounding electric disturbances.</p>
	<p><b>ELECTRICAL INSULATION:</b> This device is provided with a double-layer or reinforced insulating material.</p>
	<p><b>FCC MARKING:</b> FCC ID: 09586 / 09587 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>

- **Description of beep tones**

- 3 short beeps** : indicates initialization of the Sirius Box (power up or reset)
- 1 long beep (following 3 short beeps)** : indicates that a hard reset has occurred. Switch to access point server mode for Wifi Boxes.
- 1 short beep every 5 seconds** : operating on Sirius Box battery (power failure).
- 1 short beep** : indicates that an alarm is not taken into account by SW because the alarm has occurred during a period of inhibition of alarm schedule
- continuous beep** : threshold alarm

## IV. INSTALLATION REQUIREMENTS

Choose an appropriate place on the wall close to the SPY RF recorders (<40m / 131 ft) and to a power outlet (less than 3 m / 10 ft). Do not install the SiriusBox on metal surfaces.

**GPRS Version:**

Make sure to be in a wireless coverage area. Check the quality of the radio reception using a mobile phone. The phone screen should display at least 3 bars.

**Ethernet version:**

Place the SiriusBox less than 3 m (10 ft) from an Ethernet outlet..

Make sure that the 13254 port on your internet connecting device is open (*refer to the instructions of the user manual of your ADSL router*) or check it with your IT service provider.

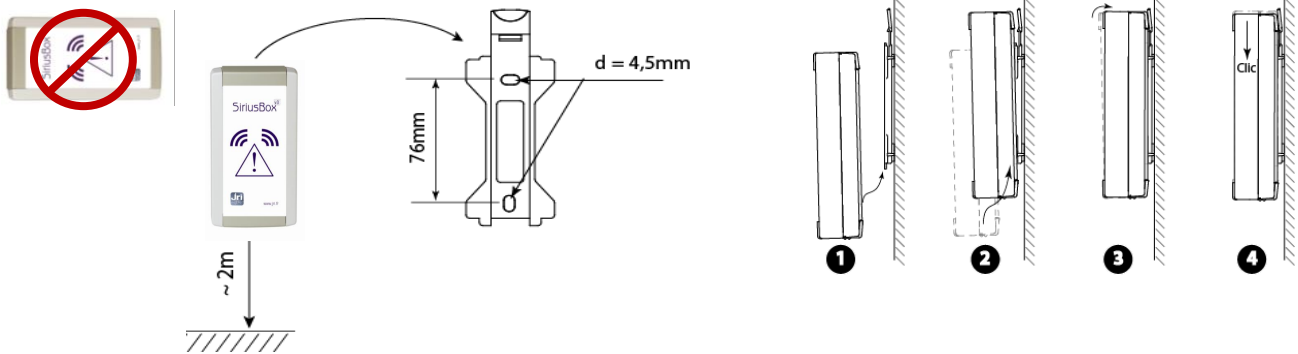
DHCP and DNS queries should be enabled.

## WiFi Version

Make sure that you are in a zone of WiFi coverage.

### • Instructions for wall-mounting the SiriusBox

1. Fix the wall mount bracket to the wall in an upright position (about 2 m (6.6 ft) above the floor and 50 cm (1.6 ft) from the ceiling. Depending on the surface of the wall use screws , double sided tape or Velcro. The release lever should turn upwards.
2. Fasten the SiriusBox to the wall mount bracket by sliding it upwards and then downwards until you hear a click ;



## V. CONFIGURATION OF SIRIUSBOX WIFI

### • Operating principle

At reception, the SiriusBox Wifi require configuration of the Wifi network to which it will be connected. In this mode, called “remote configuration”, the SiriusBox emits its own Wifi network so that one can connect to it in order carry out the configuration.

After configuration of the Wifi network and restarting of the SiriusBox, the device exits its “remote configuration” mode to enter its normal operating mode.

If one wishes to reconfigure the SiriusBox, a factory reset must be performed to erase the configuration before re-entering “remote configuration” mode.

### • Configuration

At the initial power up or while changing the WiFi configuration, the SSID and the WiFi key must be entered. For this the Sirius Box WIFI must be put in “Remote configuration” mode in order to access the settings. This operation is not to be performed if the SiriusBox is new or has never been configured.

The procedure is as follows:

- Do a factory reset of the Sirius Box WIFI
- Connect to the Sirius Box WIFI utility
- Modify the settings
- Restart the Sirius Box WIFI

#### ➤ **Factory reset and entering “remote configuration” mode**

The objective is to put the Sirius Box in “remote configuration” mode. This requires performing a factory reset so that the SiriusBox is directly accessible and open to the configuration via WiFi.

This operation is useful only for SiriusBox Wifi for a remote configuration (series cable not used).

**Attention:** This operation erases the stored SSID and network key in order to enter into remote communication mode.

Procedure:

- Push and hold the “Stop Alarm” button.
- Using a paperclip, push the “reset” button.
- Release the “Stop Alarm” button only after the beeps.

In this case, a long continuous beep indicates that the factory reset has been correctly carried out.

After a few seconds the Sirius Box Wifi will enter “Remote configuration” mode. The blinking of the “Connection” LED once per second confirms this state.

➤ **Connection to the Sirius Box WIFI utility**

**WIFI Connection**


- Activate the WIFI on the PC. Le PC must be equipped with a WiFi card or a WiFi USB key.
- Verify that the PC detects the Wifi network of the SiriusBox (named “SiriusBox\_XXXXXX” where XXXXX is the serial number of the SiriusBox, written on the side of the upper cover).
- **!/ Do not connect the PC to the SiriusBox network !/**
- Download and install the program “ConfigSiriusBox WiFi” from the site : <http://www.jri.fr>
- Run « ConfigSiriusBox.exe »
- Follow the instructions

## VI. CONNECTING TO THE SIRIUSWEB PLATFORM

• **Your subscription has already been activated:**

- To set remote alarms (text messages, emails, and voice mails) and acces all the data stored on the SiriusWeb platform log on to the following address: <http://www.sirius.web.fr>
- Enter you login and password provided with the subscription confirmation and then click « **OK** ».

• **Your subscription has not yet been activated :**

- Logon to [www.jri-maxant.com](http://www.jri-maxant.com). Go to the « **SiriusWeb online Subscription** » section and follow the steps to subscribe.
- Once your devices have been installed and the parameters set, click on  to enable the start up of the system.
- Or call directly JRI or your JRI dealer.



## VII. TECHNICAL SPECIFICATIONS

	<b>RADIO</b>
<b>Radio band</b>	ISM 868 Mhz
<b>Maximum radiated power</b>	10 dBm (10 mW)
<b>Effective indoor transmission distance with the SPY RF recorders</b>	Up to 40 m (131 feet) depending on the surroundings
	<b>GPRS</b>
<b>Emission band</b>	GSM 900 MHz or DCS 1800 MHz (depending on the subscription with the service provider)
<b>Maximum radiated power</b>	2W in GSM mode – 1W in DCS mode
	<b>WIFI</b>
<b>Emission band</b>	Frequency : 2,4 GHz Modulation : 802.11b and 802.11g
<b>Maximum radiated power</b>	+ 12 dBm
<b>Sensitivity</b>	- 83 dBm
<b>Supported encryption</b>	WEP-128, WPA-PSK (TKIP), WPA2-PSK (AES)

ELECTRICAL	
Power supply	Regulated output voltage power adapter (European plug model): Input: 230 V CA – Output: 9 V CC - 650 mA 3-meter non detachable power cord
POE	Optional Power over Ethernet supply for the Ethernet version 3-meter Ethernet cable supplied
Power consumption	Average consumption: 0.5 W Peak consumption: 5 W
Backup battery	650 mAh NIHM battery
Battery life	1 to 3 hours depending on configuration Charge time: 100 hrs
MECHANICAL AND ENVIRONMENTAL	
Dimensions	154x84x37 mm
Weight	270g (excluding the AC Power adapter)
IP Rating	IP20 – to be used indoors only
Operating temperature/Humidity	0°C to 50°C – 0 to 90% RH
Pollution / Altitude (IEC 61010-1)	Pollution degree 2 Operating altitude: 0 to 2000m
SECURITY/ COMPLIANCE	
Complies with	EN 301 489 / EN 300 220 / EN 61010 / EN 301 511

## WARNING



The SiriusBox contains a rechargeable NIMH battery. Never attempt to disassemble, charge ??? or short circuit it. Do handle the battery properly, do not expose to temperatures exceeding 100°C, do not get it wet, do not reverse the polarities. Keep away from children. Always replace the battery with the battery models supplied by JRI. The JRI batteries are provided with a connector preventing reverse polarity

**CAUTION: THERE IS A RISK OF EXPLOSION IF THE BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF THE BATTERIES ACCORDING TO LOCAL LAWS AND REGULATIONS**

**JRI disclaims any responsibility for any damage caused by the use of a different battery. Failure to comply with these instructions may result in the leaking of hydroxides from the safety valve.**

## VIII. TROUBLESHOOTING

- If the LEDs are off, check that the power cord is properly connected to your SiriusBox and that the power supply adapter is properly connected to a functioning power outlet.
- If the « Connetion » LED doesn't come on after a while, reset the SiriusBox by inserting the end of a paper clip or a similar object into the hole located at the bottom of the device.



## IX. CLEANING

- Clean with a soft dry cloth or slightly moistened. To remove stubborn dirt, use a cloth with a diluted non abrasive detergent, then dry thoroughly with a dry cloth.
- Never use benzene, thinner, alcohol or solvent of any kind as this may cause discoloration or deformation of the surface.

## X. WARRANTY

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Our products carry a one year warranty and guarantee against defects in their components or workmanship. During this period if any product supplied by our 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's liability exceed the price of the product paid by the buyer or the cost of the replacement. JRI shall not in any event be liable to the buyer for any indirect or consequential loss or damage caused by fair wear and tear, abnormal storage conditions, incorrect use, accidental misuse, abuse, neglect, misapplication or modification, or use with non-JRI 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 specifications without prior notice.

## XI. MAINTENANCE CONTRACT

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### 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 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 no longer need to worry about your devices' maintenance !

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 (0,29167 € HT/min)
- material replacement on site or by return in our factory
- metrological certificates: verification of measurement accuracy
- access to new software versions and updates
- on-site intervention time within 3 open days after problem identification by our experts.

## XII. PROTECTION DE L'ENVIRONNEMENT

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

However, our company has decided to apply the whole dispositions of this Directive for all our electronic devices thus complying with the 2002/95/CE Directive.

## XIII. TECHNICAL SUPPORT

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If you need further help our technical support team is available by email: [support@jri.fr](mailto:support@jri.fr)