



Measurement, monitoring and metrology



**WIRELESS SENSORS TO SIMPLIFY YOUR HACCP  
CONTROL OPERATIONS**

[www.jri-corp.com](http://www.jri-corp.com)

# Next generation of connected sensors

Our new generation of connected temperature sensors ensures food monitoring with reliability and measurement accuracy. Compliant with the EN 12 830 standard, it allows you to meet your control obligations related to HACCP procedures without manual intervention.



**Measuring of various parameters**  
 Temperature, Humidity, Parcel opening, etc...

**Real-time Alarms**  
 The sensors have **operating and warning light indicators**. Alerts are sent by **SMS text message, e-mail and voice message** according to your alerts planning.

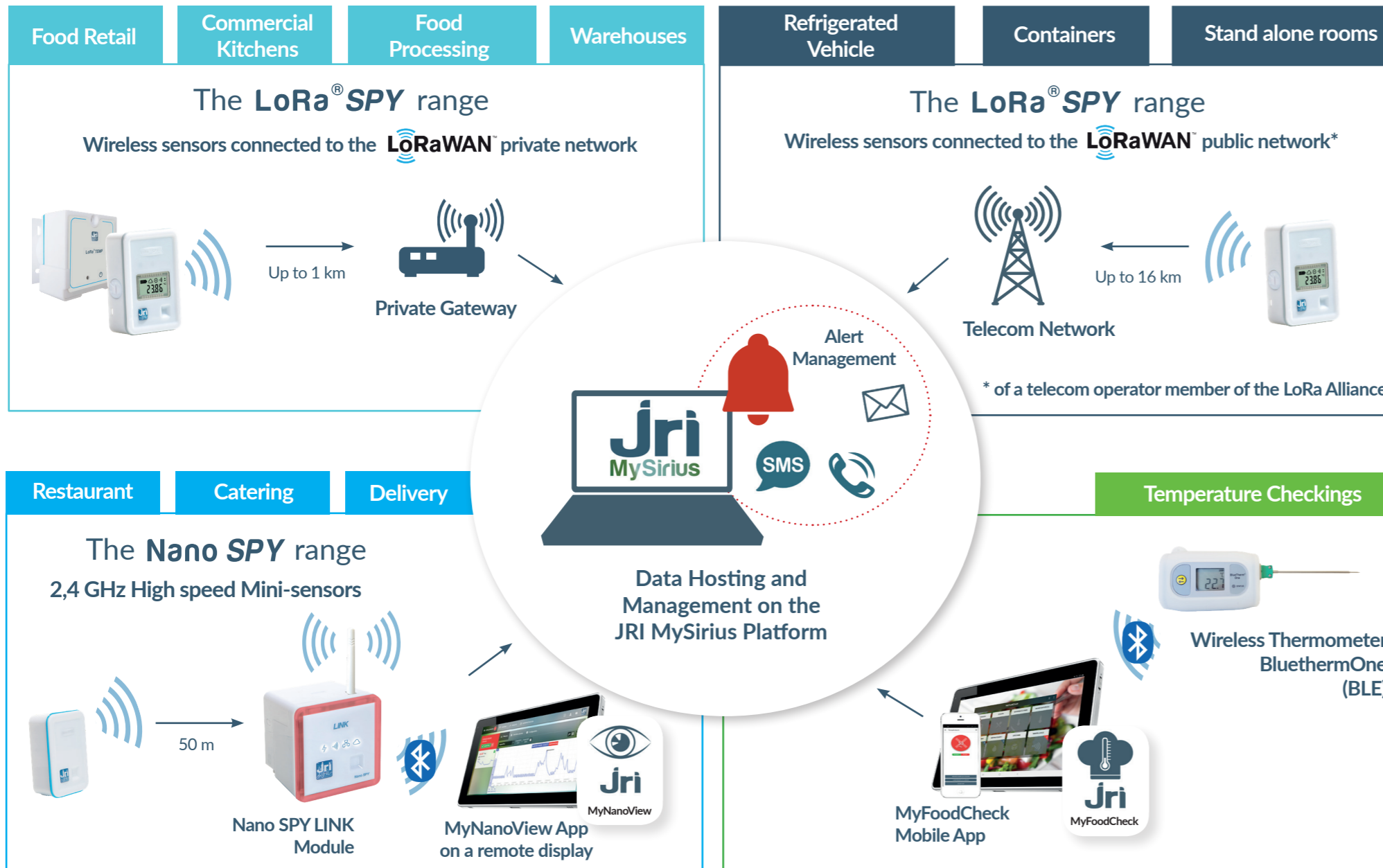


**Easy installation and use**  
 Being miniaturized, the sensors can be placed the closest possible to your sensitive products or fixed in a fridge with a strong integrated magnet.

**10 000 data points recording**  
 The sensors are equipped with an internal memory able to record up to 10 000 data points.

**Simplified Metrology**  
 Calibration of the temperature sensor can be realized through replacement by a new calibrated one.

They are automatically detected on the JRI MySirius platform. Colour rings make it easy to determine the configuration of each sensor.



## Automated monitoring of fixed and mobile units with performance and adaptability



- Refrigerators, Freezers
- Cold Chambers
- Storage Warehouses
- Cold and Hot kitchen units
- Linear and mobile display cabinets
- Rolls
- Refrigerated vehicles
- Food pallets
- HVAC

- Automation
- Real-time alerts
- Centralized Supervision
- Regulation Compliance
- ROI




## The Nano SPY range

### High Speed Mini sensors

- Temperature monitoring from -40°C to +85°C, and humidity monitoring from 0 to 100%RH
- Easy installation in the unit or in a transport box thanks to their small size
- Visual alerts via the warning light indicator of the Nano SPY LINK, in case of alarm
- Suitable for monitoring locations where :
  - many sensors are on a short distance of each other
  - the sensors are not accessible and a remote display is possible
- Bluetooth Communication between the Nano SPY LINK and a tablet equipped with the MyNanoView App


Dimensions : 63x42x25mm

	<b>Nano SPY T1</b> Mini temperature sensor can be placed directly inside the refrigerator or the freezer (IP 68)
	<b>Nano SPY T2</b> Mini temperature sensor with external flat cable to be placed in the chamber through the door seal
	<b>Nano SPY TH</b> Mini temperature & humidity (ambient) sensor, particularly adapted for HVAC applications





**Nano SPY LINK**

Is connected to the network and sends the data recorded by the Nano SPY sensors to the JRI MySirius platform



Display of data and units in alarm on the MyNanoView app via a Bluetooth communication between the Nano SPY LINK (BLE option) and a tablet





**Nano SPY ALARM**

Allows to alert locally in case of alarm and allows to double the radio range between the Nano SPY sensors and the Nano SPY LINK.

## Bluetherm One

### The Bluetooth™ Wireless Thermometer Automation of core temperature control

- Food temperature control
- Interchangeable Type K thermocouple probes :
  - penetration probe
  - hypodermic probe
  - surface probe
- Measurement range : -199.9°C to +1 372°C  
Accuracy : ±0.4°C ± 1% of the measurement depending on the probe type
- Bluetooth Communication with a tablet on which the MyFoodCheck App has been installed
- Protection case in option



Dimensions : 66x109x34 mm



## The LoRa® SPY range

### Wireless long range sensors connected to the LoRaWAN™ network

- Data transmission via the LoRaWAN™ network :
  - via the network of a telecom operator member of LoRa Alliance™
  - via the network of a private gateway
- Suitable for monitoring locations with :
  - few sensors
  - storage areas spread on a wide territory
  - a need of real-time\* transportation
- Very low power consumption (battery life up to 4 years)
- Direct reading on the LCD display
- Radio range up to 16 km in open field



LoRa means «Long Range». It is a technology that allows the Internet of things to transmit small-sized data measurements on a long distance, using a low power consumption.



Dimensions : 87x64x25mm





### EN 12 830 Compliant Sensors

	<b>LoRa® SPY T1</b> Temperature and parcel opening sensor Suitable for transportation/logistics and storage areas monitoring
	<b>LoRa® SPY T2</b> Temperature sensor with external flat cable to be placed through the door seal Designed for refrigerators and freezers
	<b>LoRa® SPY T0</b> Temperature sensor without display Designed for cold chain monitoring during transport
	<b>LoRa® SPY Digital</b> Sensor with external digital temperature and humidity probe Designed to simplify calibration operations by replacing the probe with a new calibrated one




### Other sensors


	<b>LoRa® SPY U</b> Universal analog input sensor Recording of data coming from analog probes for monitoring : <ul style="list-style-type: none"> <li>• high temperature</li> <li>• temperature by penetration</li> <li>• door openings</li> <li>• energy consumptions</li> </ul>
	<b>LoRa® SPY TH</b> Temperature and humidity sensor Suitable for HVAC applications and warehousing



### EN 13 485 Compliant Indicator

	<b>LoRa® TEMP</b> Temperature indicator connected to LoRaWAN™ Suitable in Food retail and Restaurant for monitoring units that do not require a continuous recording of measurements
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### Gateway

	<b>Micro Gateway LoRa™</b> It allows to set up a private LoRa network for transferring to the JRI MySirius platform the data recorded by the LoRa® SPY sensors.
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\*subject to coverage by the operator network.

# A modular and customizable overview



Measurements are automatically uploaded on the secure JRI Cloud and data are managed via the userfriendly JRIMySirius web application.

**A wide range of alarm options and management**  
Multi-cascades, snooze, temporary inhibition...

**Customized interface**

- Different indicators and favorites
- Optional modules adapted to different user's needs: maintenance, metrology, plan, geolocation...

**Data Integration** in a third-party system via web API (Application Programming Interface)

**Delay updates** give you more time to prepare partial qualifications and training of your team.

**Customized user profile management**

- Unlimited users number
- Different rights to assign per profile: Administrator, Site manager, Supervisor, User, Metrologist...

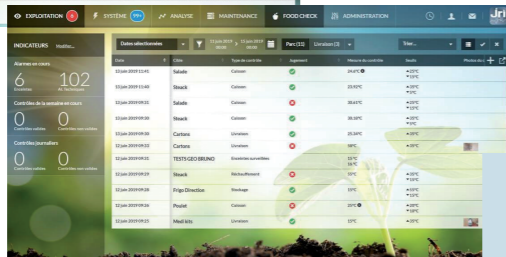
**HACCP Compliance**

- The FoodCheck module allows you to monitor and archive temperature checkings made via the MyFoodCheck mobile app.

**Simplified configuration of the sensors**



**Access to data 24/7**  
Visualize your data from any PC, tablet, smartphone and share it with your colleagues from anywhere.



## The mobile app dedicated to HACCP procedures

**MyFoodCheck simplifies the temperature checking operations performed by the wireless Bluetooth thermometer BlueTherm One and synchronizes them on the JRIMySirius platform**

**Management and management of temperature control operations of foodstuffs**

- At delivery acceptance
- During food preparation, hot/cold hold cooling/reheating
- During storage



Control operations archiving

Tracking of corrective actions and conforming

Data Integration in the JRI MySirius platform

# Our services

Three types of subscription are offered to manage the JRI MySirius solution

Subscriptions

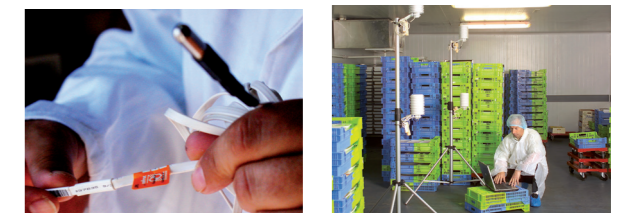
	INITIAL	SERENITY	ADVANCED	
SERVICES	Data reading (maximum) measurements, graphs, history	The last 2 months	The last 18 months	The last 5 years
	Data archives Data reading period included	The last 12 months	The last 3 years	The last 10 years
	Technical support Online help, tutorial	✓	✓	✓
FEATURES	Number of user accounts	2	Unlimited	Unlimited with customizable profiles
	21 CFR Part 11 Compliance			✓
	Audit trail		Alarm audit trail	Full audit trail
	Update delay			✓
OPTIONAL MODULES	Connectivity module (Web API)	✓	✓	✓
	MyFoodCheck	✓	✓	✓

We guide the JRI MySirius solution with a wide range of services realized by our distribution network : installation, commissioning, qualification, training, metrology services and maintenance operations.

Metrology

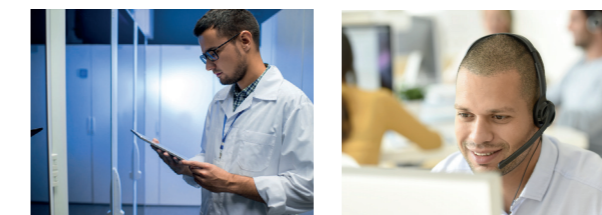
The exclusive attributes of our digital temperature probes and Nano SPY mini sensors allow you to perform their calibration by simple exchange with a new calibrated probe, without interrupting the monitoring of your equipment.

- SIMPLICITY**  
Remove the old and replace by the new one
- COMPLIANCE**  
Respect the obligation of calibration
- TIME SAVING**  
No interruption in the monitoring



We perform temperature and humidity mapping of thermo-controlled equipments or warehouses to ensure their performance and compliance to store your goods.

Maintenance



Our maintenance contracts provide the necessary interventions to maintain your installation in operational conditions and are carried out by our team of experienced distributors :

- Technical hotline access,
- Extension of guarantee on hardware and software,
- Remote maintenance of your application,
- On-site maintenance and support

Trainings

As a certified training organization, the JRI Academy offers training for all levels in monitoring, metrology and tailor-made.





Play the JRI MySirius solution video !



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[www.jri-corp.com](http://www.jri-corp.com) | [info@group-mms.com](mailto:info@group-mms.com)



2 rue de la Voivre  
25 490 Feschés-le-Châtel - France  
Tél.: +33(0)3 81 30 68 04  
[www.jri-corp.com](http://www.jri-corp.com) - [info@group-mms.com](mailto:info@group-mms.com)



Our partnerships



Association Française du Froid