



By **MMS** group

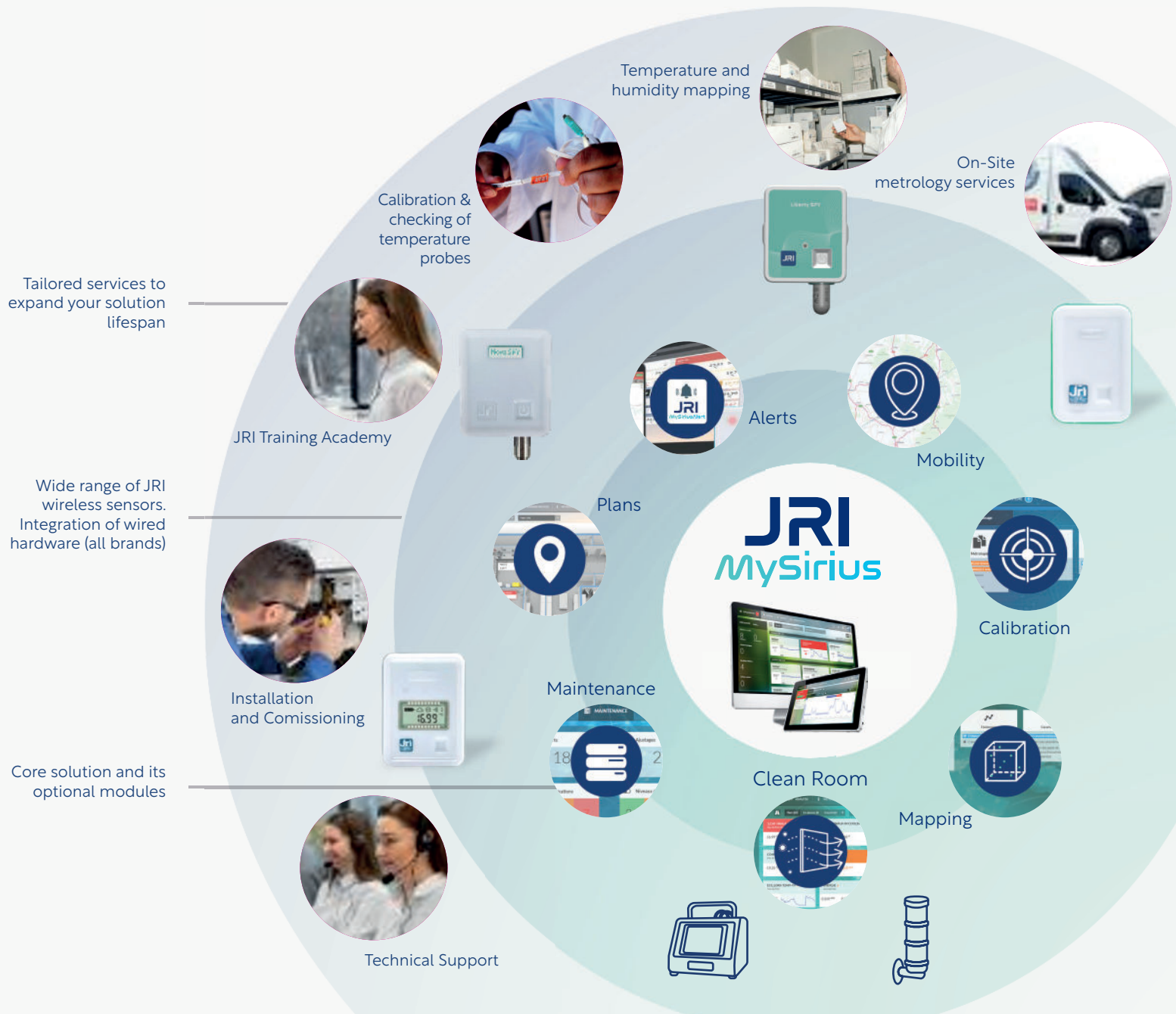
Beyond
the measure



**The reliable and sustainable
monitoring solution for the
compliance of your temperature
sensitive products and processes**



A measuring chain for each parameter, a platform for each use case, and teams to support you at every stage of your project.



Monitoring and validation for your critical environments, fixed & mobile assets



Clean Room



Laboratory equipment



Blood bank



Ambient storage



Labo biotech



Transportation of sensitive products

JRI-MySirius solution

A user-friendly, intuitive and customizable interface and indicators

Optional business modules and Web APIs

Clean Room - Calibration - Mapping
Maintenance - Maps display - APIs

FDA compliant (CFR 21 part 11) Secured access with customizable roles

Administrator - Supervisor
Batch manager - User - etc.

Notification & data access anywhere

MySiriusAlert APP
MyNanoView APP

Total flexibility of alarms management

Escalation - Delay - Permanent or temporary inhibition

Automation

Automated generation of customizable data reports



Complementary modules



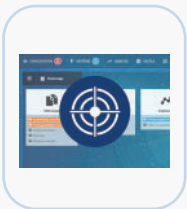
Clean Room

Smart monitoring for clean rooms parameters : Airborne particulates counting, pressure cascades, TH, CO₂. Real time alerts with Off-Line mode.



Maintenance

Advanced management of corrective and preventive maintenance of equipment



Calibration

Autonomous calibration management module



Mapping

Temperature mapping module in a chamber



Connectivity

Provision of APIs for connection to your tools and business processes



Mobility

Real-time monitoring of a mobile fleet



MySirius Alert

Mobile application for alert transmission

Service levels

Choose your hosting



Cloud
(SaaS)



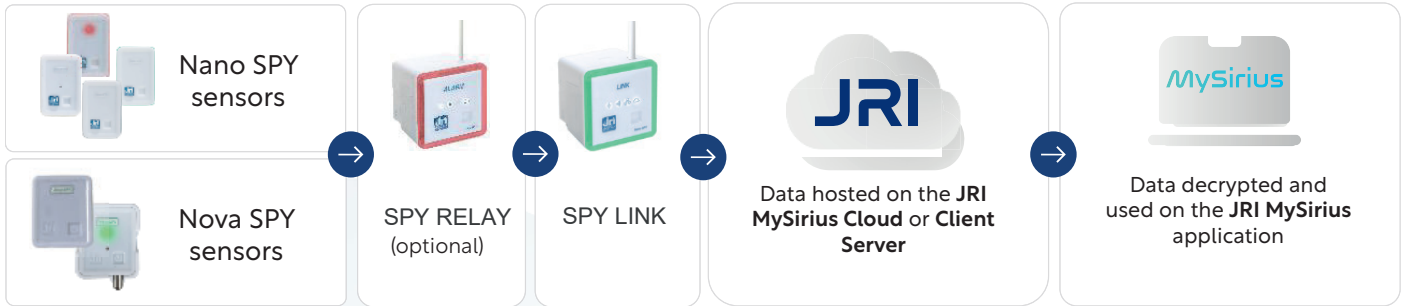
Serveur
(On-Premise)

Choose your package

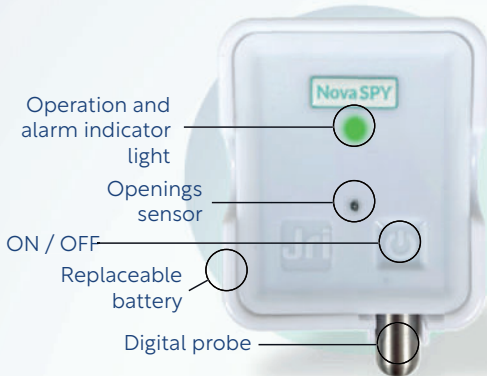
	SERENITY		ADVANCED	
	18-month rolling period		18-month rolling period	
SERVICES -	Data review		18-month rolling period	
	Measurements, curves, history			
	Data storage		10-year rolling period	
	Includes the access period			
	Technical support		✓	
	Online help, tutorials		✓	
	Number of user accounts		Unlimited	
	Conformity 21 CFR Part 11		✓	
	Activity log		Comprehensive activity log	
	Product Temperature Simulation		✓	
FEATURES	Metrology		✓	
	Online help, consultation, fleet management		✓	
	Tools		✓	
	Adjustment, simplified reports		✓	
	Document space		✓	
	Reports, metrological documents		✓	
	Deferred updates		✓	
	Calculated measurement points		✓	
	Self-calibration (Cloud mode only)		✓	

Nova SPY / Nano SPY

High-speed recorders



Nova SPY



Measuring range: Depending on sensor type (-40°C to +80°C or -200°C to +200°C)

Frequency band: 2,4 GHz

Memory: 10 000 time-stamped measurements per channel

Sensors: - External (Model D): T°, %RH depending on JRI digital probe type

- Internal (Ambient T Model): Temperature

- Optical: Package/door opening (all models)

Dimensions : 64 x 54 x 28 mm

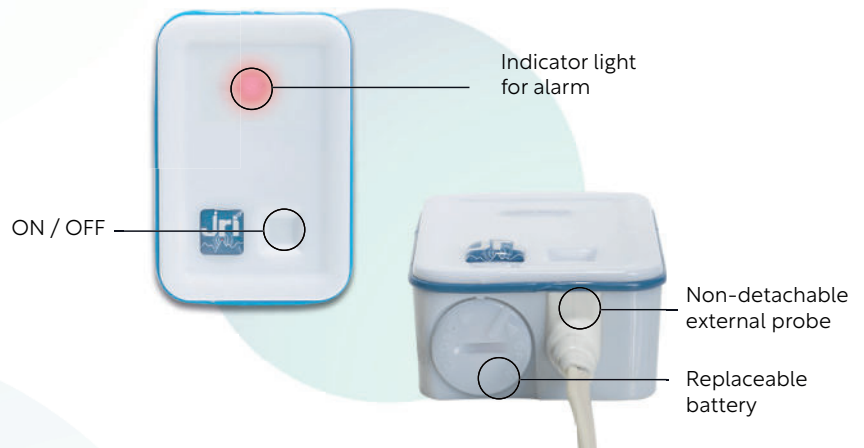
Weight: 80g (with batteries)

Power supply: Replaceable 3.6 V lithium battery

Battery life: Up to 6 years

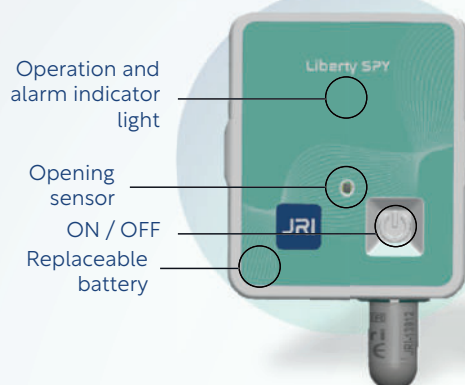
Compliance: CE, ROHS, FCC

Nano SPY



Liberty SPY

LTE-M cellular loggers



Measuring range: Depending on sensor type

Communication : LTE-M + BLE Backup

Memory: 10 000 timestamped measurements per channel

Sensors: - External (Model D) : T°, %RH, depending on JRI digital probe type

- Internal (Ambient T model): Temperature

- Optical : Package/door opening (all models)

Dimensions : 64 x 54 x 28 mm

Weight: 80g (with batteries)

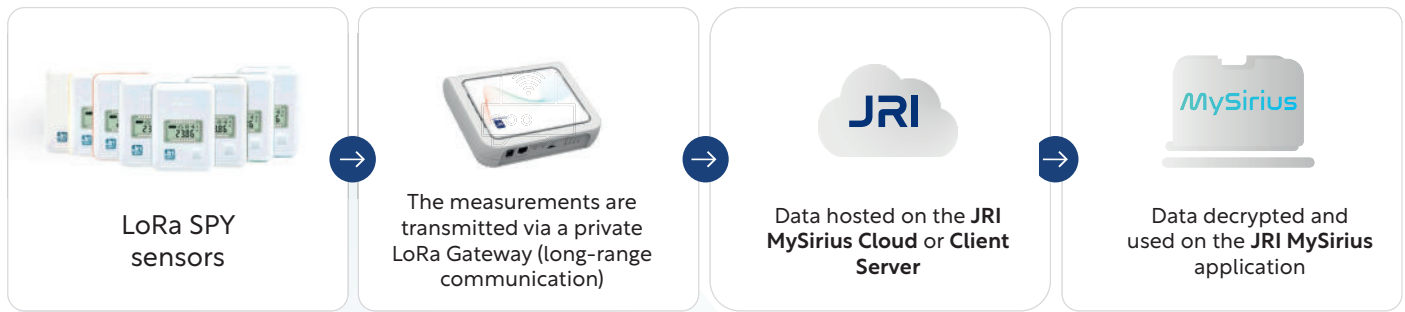
Power supply: Replaceable 3.6 V lithium battery

Battery life: 18 months or more depending on configuration

Compliance: CE, ROHS, FCC

LoRa SPY

Long-range LoRa loggers



Operation and alarm indicator light

LCD display
Replaceable battery

ON / OFF



LoRa SPY TI
-30°C to +70°C
Temperature and door opening data logger.

LoRa SPY T2
-50°C to +105°C
Temperature data logger with external probe for freezer or incubator.

LoRa SPY T4
-40°C to +85°C
Temperature data logger for hot/cold sanitary water pipes.

LoRa SPY TH
-30°C to +70°C
Ambient temperature and humidity data logger.

LoRa SPY D
Data logger for detachable digital probes: temperature and humidity.

LoRa SPY U
-200°C to +300°C
Data logger/transmitter for analogue sensors: temperature, %RH, O₂, CO₂, differential pressure, etc.

Digital probes and transmitters

Green Digital Sensor
Measurement range: -40°C to +80°C
Accuracy: $\pm 0,2^\circ\text{C}$ from -40° to +50°C $\pm 0,25^\circ\text{C}$ outside this range
Resolution: $\pm 0,01^\circ\text{C}$
Connector type: IP40 - detachable Binder (direct or with extension)
Sensor protection: IP 68
Dimensions: Ø11 x 35 mm (Green Digital Sensor Short)



Precision TH Probe
ROTRONIC
Measurement range: -40 °C to +85 °C / 0–100%RH
Accuracy: See MPE table in technical datasheet
Resolution: $\pm 0,01^\circ\text{C}$
Response time $\sigma 90$: ~15 s without filter
Sensor type: PT1000 class 1/3 B, HYGROMER HT-1
Connector type: 7-pin, screw type
Binder connector protection: IP68
Sensor dimensions: 63 x 42 x Ø25 mm



Green Digital Sensor
Temperature and Humidity
Measurement range: -30 to +70°C ; 0 to 80% HR non-condensing
Accuracy: See MPE table in technical datasheet
Resolution: $\pm 0,01^\circ\text{C}$
Sensor type: Digital – internal PTFE filter
Connector type : IP40 detachable Binder (direct or with extension)



Green Digital Sensor
Low temperature probe
Measurement range: $\pm 0,5^\circ\text{C}$ from -196 °C to -90 °C, $\pm 0,2^\circ\text{C}$ from -90 °C to -40 °C, and $\pm 0,3^\circ\text{C}$ from -40 °C to 0 °C
Sensor type: Stainless steel
Sensor dimensions: Ø2,9x35 mm
Sensor protection: IP 68
Cable type: Teflon cable - Ø2,9mm - 3m
Connector type: Detachable Binder



Green Digital Sensor reference
Measurement range: -50 °C to +200 °C
Accuracy: $\pm 0,15^\circ\text{C}$ between -40 °C and +80 °C | Specifications for the rest of the range provided by COFRAC 5-point calibration with modeling
Resolution: $\pm 0,01^\circ\text{C}$
Response time $\sigma 63$: ~30 s
Connector type: Detachable Binder – IP40
Binder connector protection: IP68
Sensitive element dimensions: Ø2,2 x 35 mm



NanoVACQ xflat range
PictoVACQ range
-90°C to +140°C
Temperature control inside boxes, bags, trays, pouches, autoclaves, pasteurizers, ovens, dryers, freezers, freeze dryers, etc.



CO₂ Transmitter
0–20% CO₂
For incubator monitoring
Measurement range: 0 à 20%
Operating T°: -40°C à +60°C



Differential pressure transmitter
-100 +100 Pa
For differential pressure monitoring in cleanrooms.



Integration of wired hardware for Cleanrooms monitoring
(Airborne particles, pressure, TH, light beacons...etc)



Sustainability of your solution

Sustainability of your solution and backward compatibility guaranteed for at least the next 10 years

with continuous optimisation of your solution through regular updates of the software and sensors

Over 50 technicians and engineers

to provide you with a genuine operational maintenance service

An innovative company with 180 years of experience

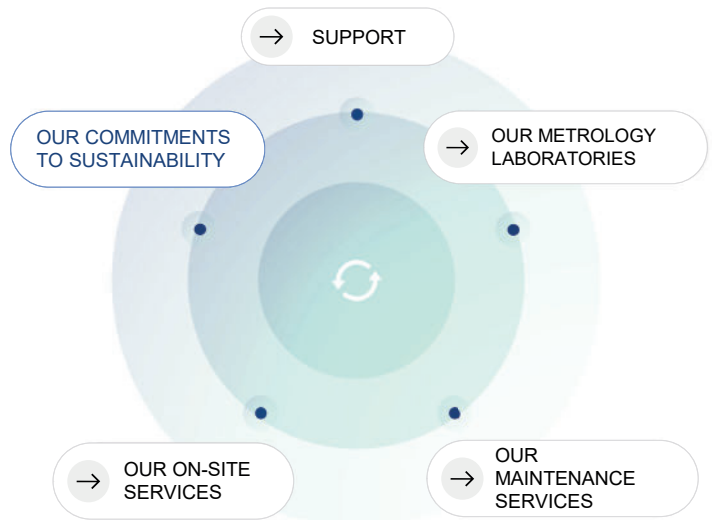
with 25 years of steady growth oriented towards the needs of discerning clients

Innovation at the heart of our strategy:

12% of revenue is invested in R&D each year

Choosing peace of mind

and the company that will have the capacity and resources to support you over the next 15 years in meeting your current needs and future projects



Support

REMOTE

Technical Hotline for support and advice

Support service for the solution managers. Ticketing via MySirius.

ON-SITE

Training

JRI offers a wide range of trainings (calibration, mapping, metrology management...), as well as audits and advice.

Advice

JRI supports you in using your solution and optimising it.

Checks and maintenance

JRI provides technical verification, optimisation of your solution on-site, battery replacements, metrology operations, and preventive & corrective maintenance.

Maintenance

Periodic on-site visits

Maintaining operational conditions

Optimisation of radio communications

Trainings Related metrology service

Software / Hardware upgrades

Replacement of batteries Advice and support

Optimisation : setup and configuration

Preventive and corrective maintenance

Our metrology laboratories

Our laboratory is accredited by COFRAC, ensuring the technical competence, impartiality, and reliability of our metrology services.

ILAC accreditation Equivalent



Our **COFRAC** accreditation certifies compliance with international standards (ISO/IEC 17025) and ensures **the metrological traceability of all our measurements.**

OUR ACCRÉDITATIONS :

n°2-1943

n°2-2471

n°2-7385

Our **U.S. laboratory** is fully accredited in accordance with **ANAB** standards.



Metrology by rotation



Exchange of digital JRI probes

Automatic upload of certificates

Time saving

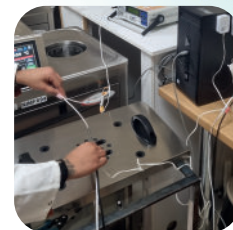
Traceability of rotations

Monitoring continuity

Cost optimisation

Drift analysis

On-site metrology



On-site

Services carried
Out at your premises

They trust us!



What about you?

Need more information?



www.jri-mms.com

M M S - Metrology & Monitoring Solutions

JRI Beyond the measure

JRI TMI

CIET Pharma
Metrologie - Qualification

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