



By **MMS** group

Beyond
the measure



EMS* Solution
JRI MySirius

*Environmental Monitoring System



**Secure Monitoring
of Your Critical Units**



The expertise of our **wireless technologies** combined with our mastery in integrating all your **wired sensors** is the ideal answer for monitoring your most critical environments.

Controlled environments face stricter regulatory requirements. EU GMP Annex 1 (2022) has become the reference point for contamination control across sterile preparation activities well beyond pharmaceutical manufacturing.

EU GMP Annex 1 (2022)

Main contamination-control framework for sterile pharmacies in the EU

ISO 14644

Defines cleanroom classes and qualification criteria from ISO 5 to ISO 8

National Standards

F S 90-351, DIN 1946-4, HTM 03-01, SWKI 99-3 for healthcare environments

Each controlled environment has its own airflow logic and risk profile. Monitoring strategies must adapt to each critical process while preserving **continuous compliance**:



Healthcare & Hospital Controlled Environments



Hospital pharmacies, cleanrooms, BSL laboratories, radiopharmacies, ATPM units.



Biotechnology & Life Science Research



R&D Laboratories, cell culture, biobanks, university research facilities.



Reproductive Medicine & Advanced Therapies



IVF clinics, embryology laboratories, cell & gene therapy environments.



Blood Banks & Biological Storage



Blood processing, cryogenic storage, biological sample preservation.



Compounding & Specialized Pharmacies



Cytotoxic preparation, sterile compounding, magistral preparation.

Ensuring the integrity of biological samples and the quality of your analyses requires a robust and reliable monitoring solution.



Incubators



Liquid nitrogen cryogenic tanks



Refrigerators



Freezers



Centrifuges

See how **JRI MySirius** solution meets your expectations



Control Parameters Monitoring

Temperature, humidity, pressure cascades, airborne particles, and other critical lab equipment.



Effective Deviation Alerts

Trigger alarms under 5 seconds with local signalling in controlled areas.



Continuous Robust Monitoring

Ensure high-frequency acquisition, no data loss, and data availability during power or network.



Demonstrate Regulatory Compliance

Support qualification, audit trails, automated reports, and state-of-control continuity.

MySirius: A tailored software for critical environments

The JRI-MySirius CleanRoom Module is a fully dedicated Environmental Monitoring System (EMS) for controlled environments.

Differential Pressure Cascades

Easy delta P measurement configuration
Product and operator protection

Airborne Particle Counting & Sampling

Fixed and mobile particle counters management (all brand)
Measurement in ft^3 and m^3 , Air flow

Open and hybrid architecture

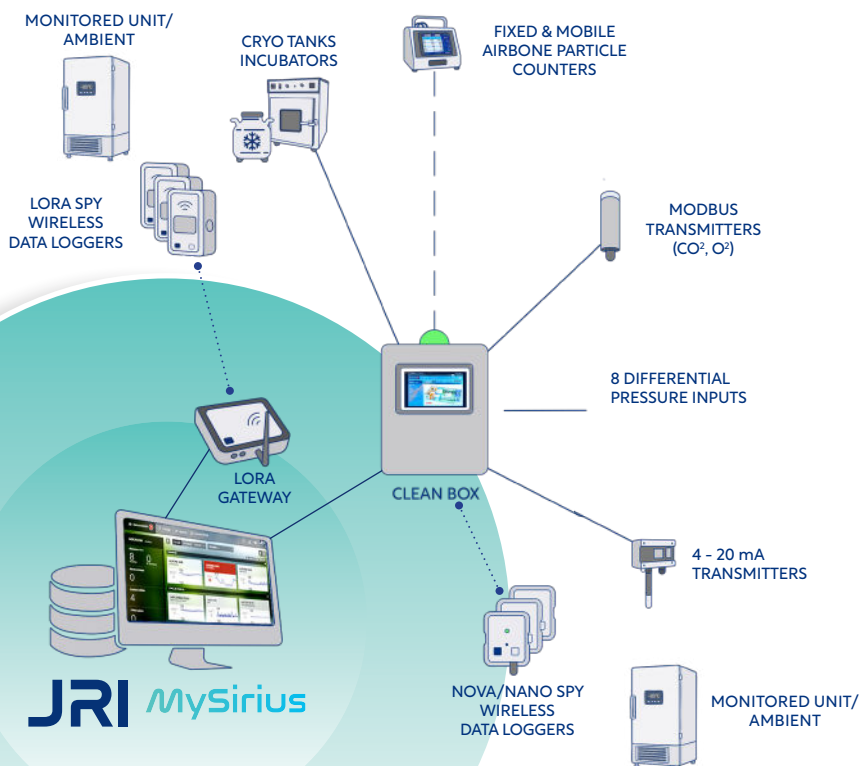
Wired transmitters and equipment sensors integration
JRI wireless logger for flexible continuous monitoring

No-Code Configuration

Full No-Code configuration via JRI-MySirius
Turnkey pre-configured product with industrial ruggedness

The CleanBox: Plug&Play solution powered by MySirius

- Compact robust design with a plug&play configuration
- Built-in 4 to 8 Differential Pressure transmitters (use of existing tubing possible)
- Embedded Modbus inputs to connect your equipment (Incubators, freezers, Cryo tanks)
- Modbus, TCP and 4-20 mA inputs to connect transmitters (T° , HR%, CO_2 ...) and Airborne Particle counters
- Built-in 3-colour beacon + buzzer (Extension of extra beacon possible)
- Offline mode to ensure continuous monitoring and alarming in case of network failure



Some use cases

BSL-3 Bacteriology Labs



Fertility centers



Anticancer Pharmacies



Why is JRI the right choice?



Full in-house design & manufacturing

JRI designs and manufactures its own products and software, from sensor to audit report. A European leader, JRI has a strong network of international partners.



Compliance

FDA 21 CFR Part 11
GAMP 5
ISO 27001



Long-term investment protection

Installation, calibration, maintenance, support, remote maintenance... Full lifecycle coverage for your installation.



A solution tailored to your needs

A modular software platform (server or cloud) with optional modules: calibration, mapping, cleanroom, mobility, etc.



The best of both worlds: wireless and wired

Wireless recorder ranges (LoRaWAN, 868 & 915 MHz and 2.4 GHz) combined with the integration of your wired transmitters (Modbus, TCP and 4-20 mA)



Metrology: accuracy at the heart of your requirements

COFRAC-accredited laboratory (ISO 17025) for sensor calibration with the best measurement uncertainties on the market.

OUR KEY FIGURES:

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customers

+39 000
users

+60
partners

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