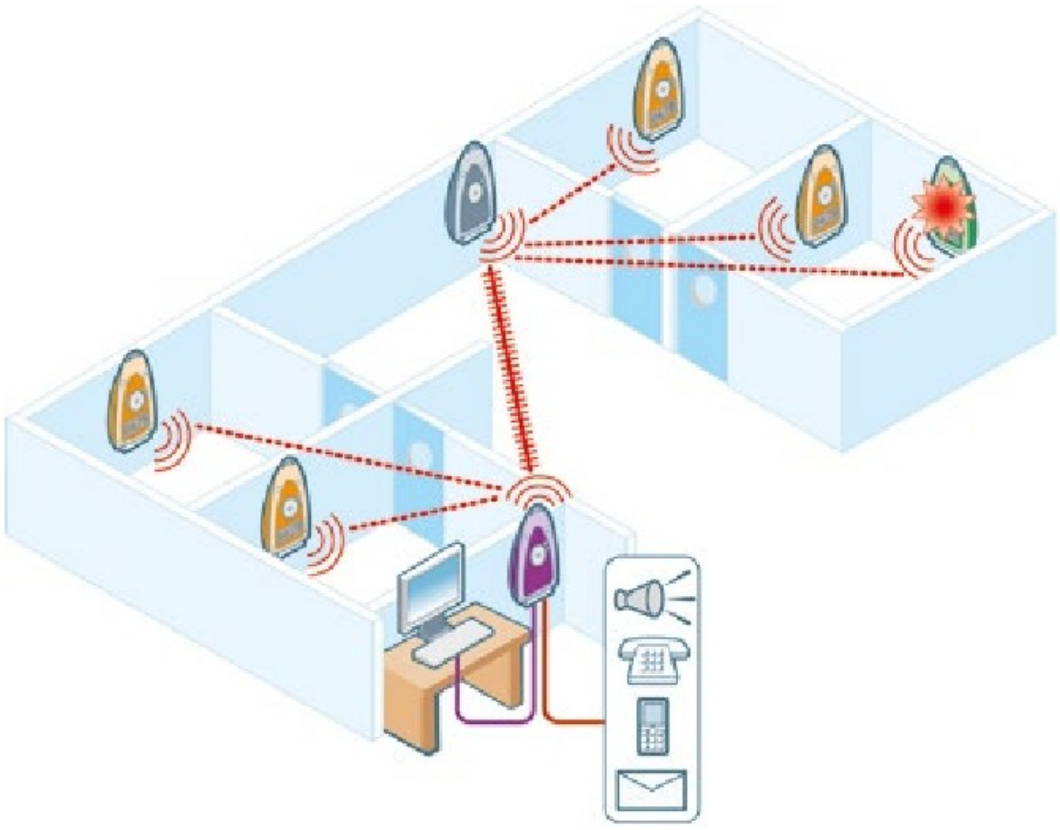
SC METROMAT SRL

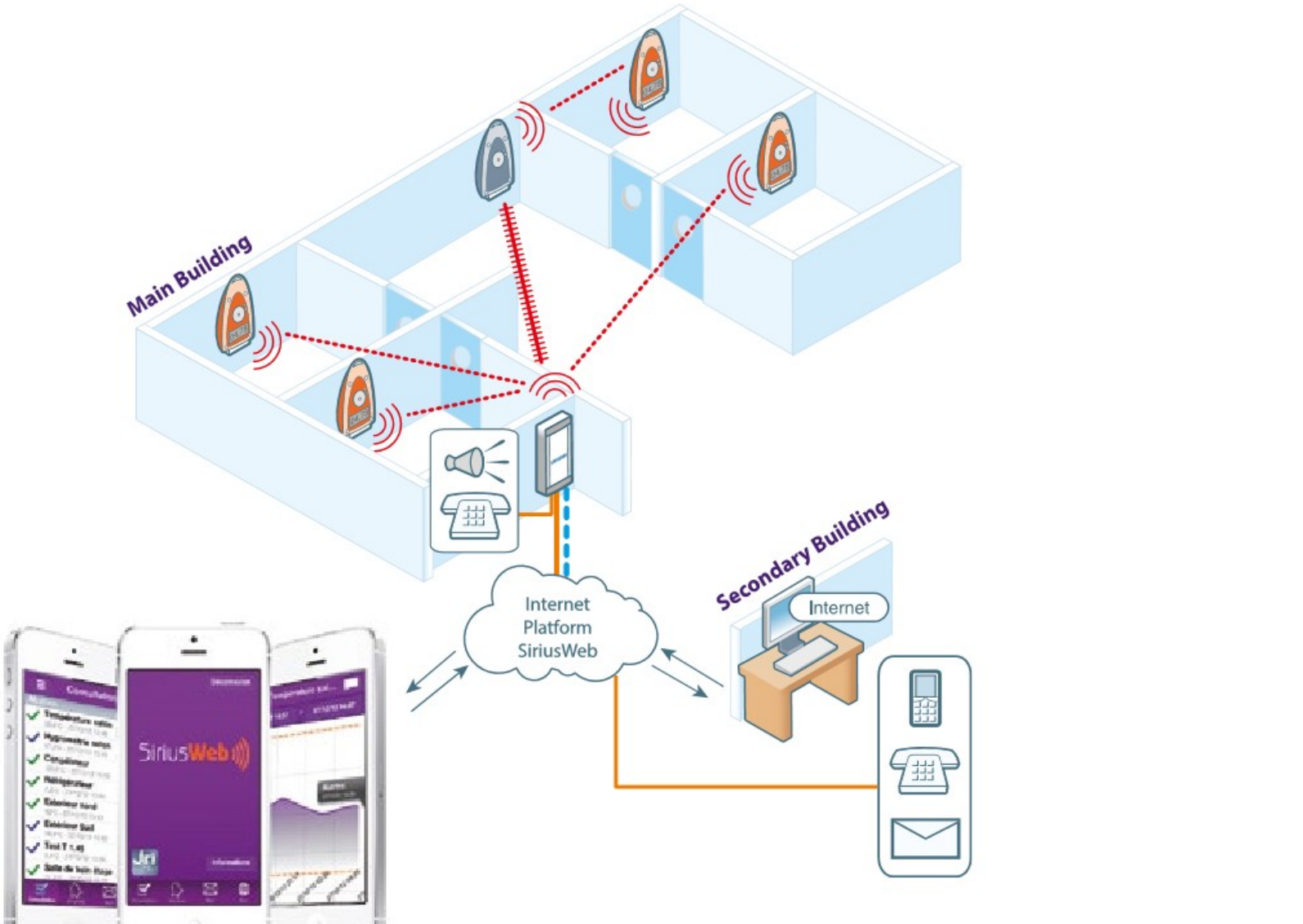
Compartimentul Comercial: 505600 - Sacele - Piata Libertatii nr.2 - tel/fax: 0268 275 212; 0268 276 807 e-mail: sales@metromat.ro - comert@metromat.ro

EXAMPLES OF SIRIUS SOLUTION SYSTEMS

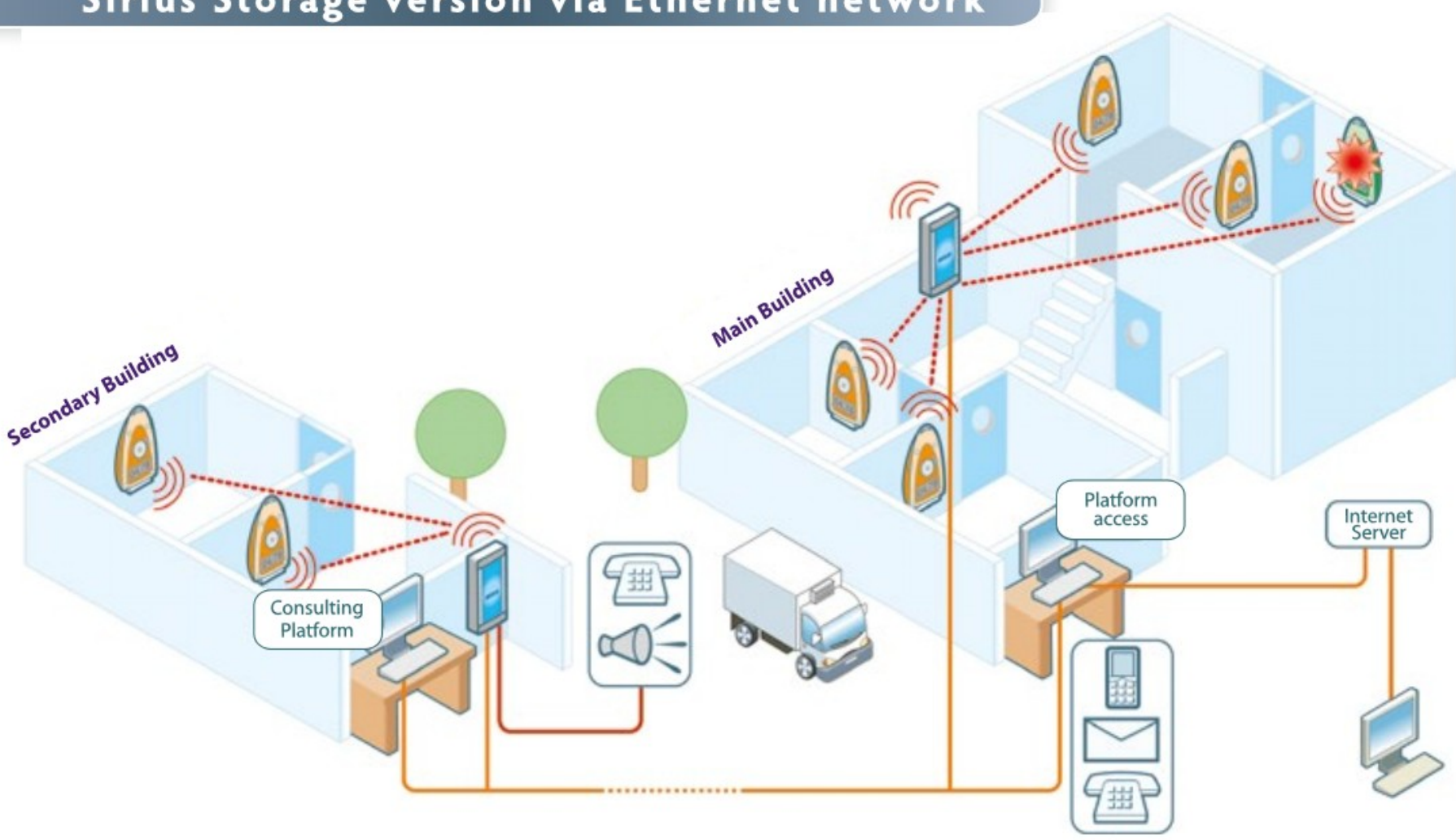
Sirius Lite Version



SiriusWeb Version

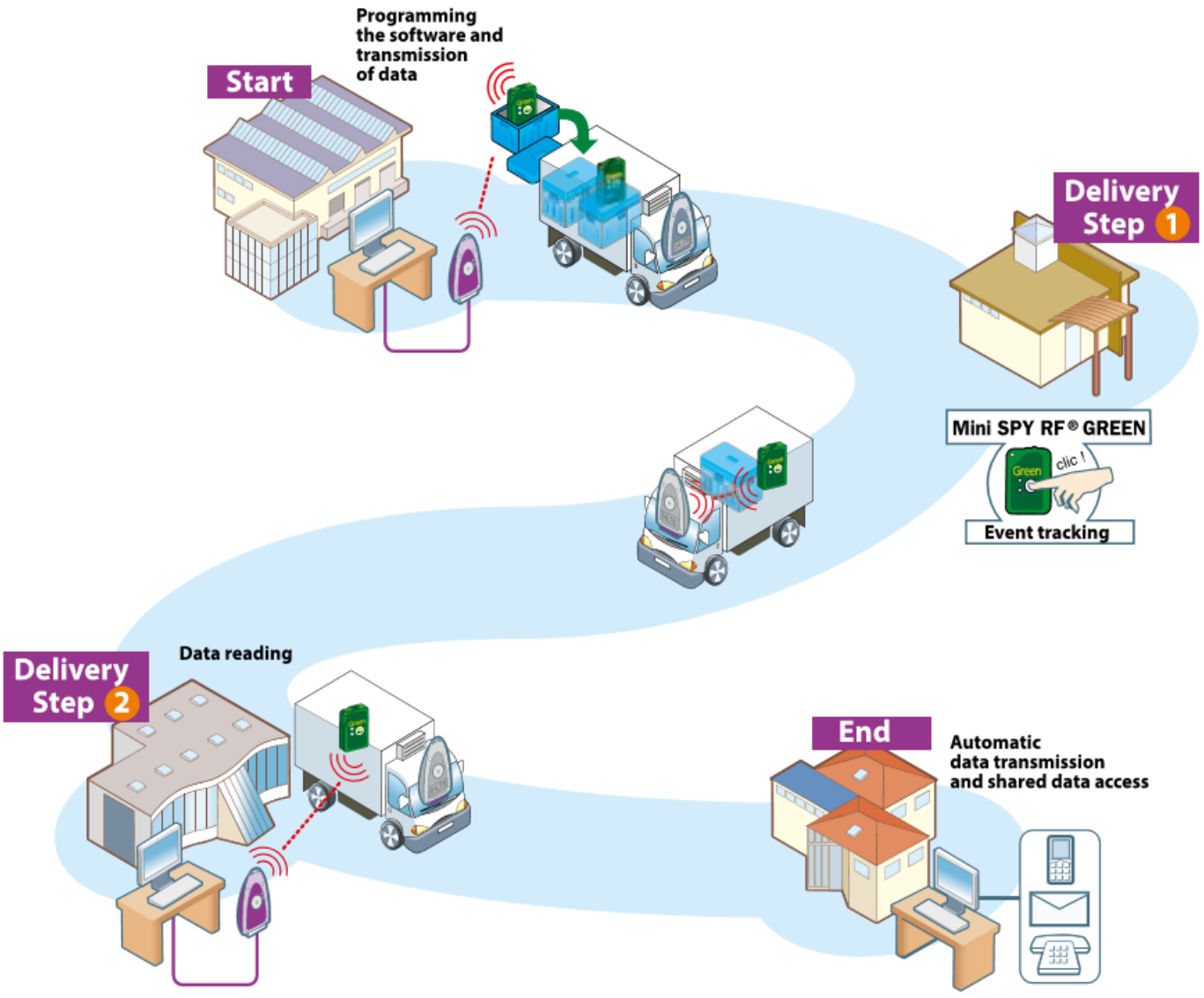


Sirius Storage version via Ethernet network



Sirius Transport version with Mini SPY RF®

Version available with all recorders included in the SPY RF ® range



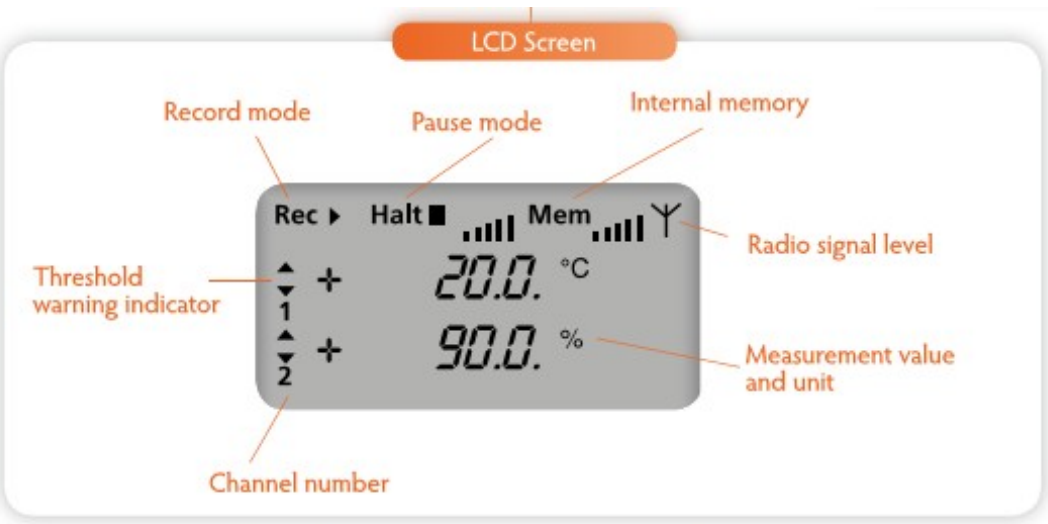
Legend

- SPY RF ®
- SPY RF ® RelaY
- SPY RF ® Visu
- SPY RF ® ModeM
- SPY RF ® AlarM
- SPY IP
- SPY RF ® ModeM Ethernet
- Mini SPY RF ® GREEN
- SiriusBox
- Ethernet Network
- USB Cable
- Radio Communication (200 - 300 m)
- GPRS communication
- Radio Communication (800 - 1000 m)
- Alarm TXT / msg
- E-mail alert
- Visual and audible alert
- Telephone alert

FOCUS **SPY RF®** RECORDERS



Scale of 1/1



SPY RF® Range is also available in °F

ONE SOLUTION FOR EACH APPLICATION



Coolers, refrigerators and freezers

Recommended Solutions
> SPY RF® T+
> Mini SPY RF® Green
> SPY RF® N with flat cable probe

The expert's point of view
> Easy to install.
> Cost saving temperature monitoring solution.



CO2 and temperature incubators

Recommended Solutions
> SPY RF® U2 with Pt100, (A grade) probe paired and CO2 high accuracy sensor.
> SPY RF® N with digital probe for incubator.

The expert's point of view
> Ask for a ISO 17025 calibration certificate at 36, 38 and 45°C for a maximal accuracy of ± 0,2°C.
> SPY RF® N: to easily perform maintenance operations, thanks to digital probes replacement.



Refrigerators, freezers and incubators from -50 to +125°C

Recommended Solutions
> SPY RF® U with Pt100 probe (flat cable) and door contact sensor.
> SPY RF® ReferencE with Pt100 probe (flat cable).
> SPY RF® N with digital probe (short + extension) and door contact sensor..
> SPY RF® N with digital probe for incubator.

The expert's point of view
> SPY RF® U : The flat cable probe can be placed between door seals when cabinets are not equipped with access port.
> SPY RF® ReferencE : To get high accuracy measurements for specific cabinets.
> SPY RF® N : To easily perform maintenance operations, thanks to digital probes replacement.



Ultra low freezers (80°C) or LN2 tanks (-196°C)

Recommended Solutions
> SPY RF® U with cryogenic Pt100 probe.
> SPY RF® N with low temperature digital probe.

The expert's point of view
> In some tanks, it is also possible to measure liquid nitrogen level.
> SPY RF® N: to easily perform maintenance operations, thanks to digital probes replacement.



Climatic chambers (temperature and humidity)

Recommended Solutions
> SPY RF® N with TH digital probe.

The expert's point of view
> Maintenance and installation operations are easier as no power supply is needed and TH digital sensors are interchangeable.



Cold chambers

Recommended Solutions
> SPY RF® U with a 15m Pt100 probe and door contact sensor.
> SPY RF® N with a 12m cable and its digital replaceable probe (IP67).

The expert's point of view
> Thanks to the cable length, you can place the probe in the most accurate area of the cold chamber and avoid alarms when the door is opened.
> Thanks to a door contact sensor, an alarm is launched before temperature is rising.

SPY RF® RECORDERS



SPY RF® T+

Ambient temperature recorder with protruding probe.

Key features
> Has a temperature protruding probe for a faster response time.
> High color for easy location.
> Splashproof and contaminationproof.



SPY RF® U

Universal recorder.

Key features
> Compatible with most probes and sensors : Pt 100, Pt 1000, 4-20mA, 0-1 V, contact.
> Monitors all types of temperature-controlled equipment (-200°C to +400°C) and many others parameters like ΔP, CO2,O2,...
> Allows recording to start when specific events occur.
> Possibility to have different types of input in 2-channel model (analog or electrical).

For a better accuracy, the recorder can be paired with a probe.



SPY RF® AIR

Ambient temperature and relative humidity recorder.

Key features
> Fast response time during measurement variations.
> Replaceable battery.
> Sober design.



Mini SPY RF® Green

Eco-friendly temperature recorder.

Key features
> 100% recyclable.
> Washable and robust.
> Remote configuration and data reading.
> Visual alarms : Leds.



Did you know ?
JRI can provide COFRAC calibration certificates for its whole range of recorders.

Did you know ?
Mini SPY RF® Green is the first eco-friendly recorder made of 100% recyclable components.

TECHNICAL FEATURES

	1 SPY RF® T+	2 SPY RF® U	3 SPY RF® Air	4 MINI SPY RF® Green
Measurement range	From -30°C to + 70°C	From -200°C to +400°C* 4-20mA/0-1V/ TOR	From -30°C to + 70°C and from 0 to 100% RH not condensing	From -40°C to +85°C
Channel number	1 internal	1 or 2	2	1
Resolution	0,1°C	0,1°C	0,1°C	0,1°C
Operating conditions	From -30°C to +70°C	From -30°C to +70°C	From -30°C to +70°C	From -40°C to +85°C
Power supply	Lithium battery	Lithium battery	Lithium battery	Lithium battery
Battery lifetime**	4 years - Not replaceable	2 years - Replaceable	2 years - Replaceable	2 years - Replaceable
Type of input	Protruding (temperature PTC)	External (Pt100/Pt 1000/4-20mA/0-20mA/0-1V/TOR)	Internal (temperature and relative humidity)	Internal (temperature) or external (Ø 4x50 mm cabled 1m)
Recording interval	30 seconds to 90 minutes	1 second to 90 minutes	1 second to 90 minutes	1 second to 90 minutes
Internal memory	10 000 measurements	10 000 measurements per channel	20 000 measurements	10 000 measurements
Radio range	300 m	300 m	300 m	58 m
Radio band	ISM 868 Mhz or 902 Mhz	ISM 868 Mhz or 902 Mhz	ISM 868 Mhz or 902 Mhz	ISM 868 Mhz or 902 Mhz
Power	25 mW	25 mW	25 mW	25 mW
Digital display	Yes	Yes	No	No
Dimensions (HxWxD)	123x69x30 mm	123x69x35 mm	222x65x30 mm	80x55x18mm
Protection index	IP68	IP65	IP34	IP67
Compliance	EN 12830, ROHS, CE, FCC, ETS 300-220	ROHS, CE, FCC, ETS 300-220	ROHS, CE, FCC, ETS 300-220	EN 12830, ROHS, CE, FCC, ETS 300-220
Delivered with	User manual	User manual, wall-mounting bracket and cable input protection	User manual, wall-mounting bracket	User manual
Part numbers	868 Mhz : 06166 902 Mhz : 09571	868 Mhz : U1 without probe : 06168 U2 without probe : 06169 U1 + Pt100 probe : 09815 U2 + Pt100 probes : 09816 902 Mhz : U1 without probe : 09573 U2 without probe : 09574 U1 + Pt100 probe : 09817 U2 + Pt100 probes : 09818	868 Mhz : 10075 902 Mhz : 10271	868 Mhz : 09980 (x1) 09985 (x10) 902 Mhz : 10255 (x1) 10258 (x10)

SPY RF® RECORDERS



SPY RF® N

Digital recorder (T° / RH / contact).

Key features

> Probes are interchangeable for easy maintenance.
> Suitable for dry contact inputs.
> Allows recording to start when a specific event occurs.
> Possibility to have different types of input on the 2-channel model (digital or electrical).



SPY RF® TC

Temperature recorder for Thermocouple K probes.

Key features

> Compatible with all types of thermocouple K probes.
> Compatible with Hygitherm probe, specially designed for pipes.



SPY RF® C

Recorder for countable events.

Key features

> Compatible with most pulse sensors.



SPY RF® Santé

Dedicated range for pharmacy and medical biology developed in collaboration with the experts of Paris Hospitals Trust ("AP-HP", 28 sites) based on SPY RF ® U or N.

Key features

> Can monitor the hottest and coldest spots of your chamber (using the 2-channel SPY RF ® Santé recorder)
> High accuracy in the range +2 to +8°C.
> Supplied with COFRAC* calibration certificates (*equivalent to ISO 17025 standard).

ASSISTANCE PUBLIQUE HÔPITAUX DE PARIS



SPY RF® ReferencE

High accuracy.

Key features

> Resolution of 0,01°C.
> Available in 1 or 2 channel(s).
> Available with or without probe.
> With an accuracy of ±0.09°C this is the tool for metrology operations or incubators surveillance.

NOTA: Aceasta fisa a fost realizata sub rezerva modificarilor ulterioare de ordin tehnic sau a erorilor de editare.

Fotografia are caracter informativ.

NOTE: Products and specifications are subject to change without prior notice .Pictures may differ from original.