ISO 9001 ISO 17025 ilac-MRA DANAK SYSTEM Reg. Nr. 5002

eupry

Automated temperature compliance in one place – no gaps, no mess.

Monitoring. Validation. Calibration.

eupry.com

Compliance should not be hard.

Be in full control of your temperature compliance at all times. Collect temperature and humidity monitoring, mapping, and calibration in one GxP-compliant solution - or handpick the components you need.

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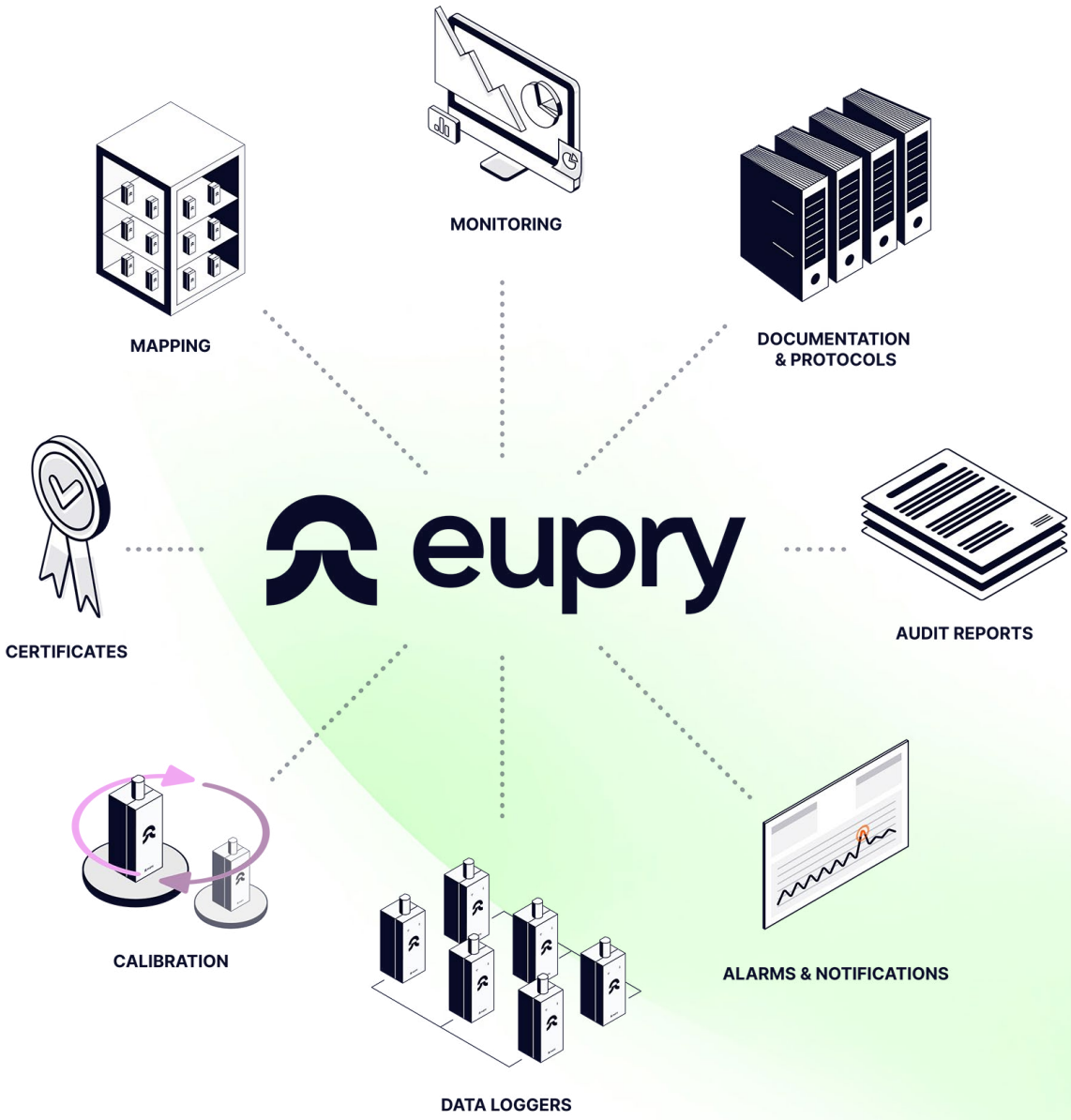
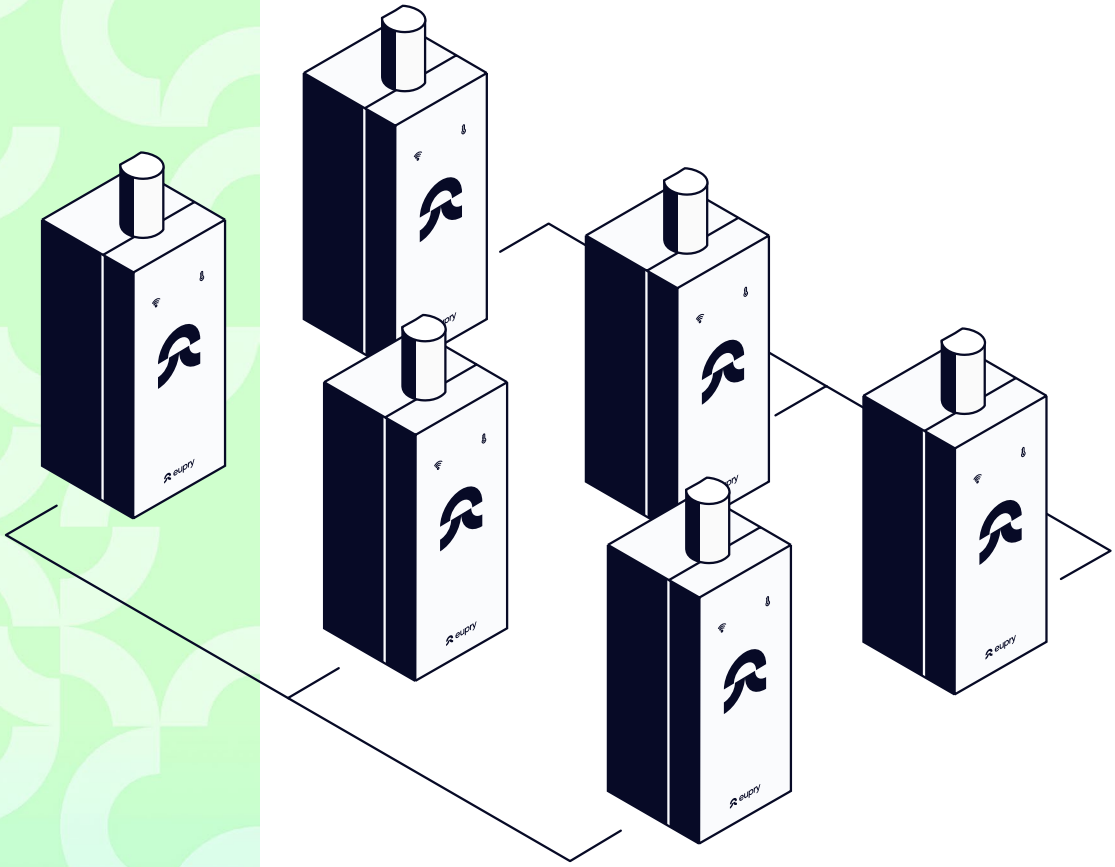


The short version

Traditional temperature compliance is characterized by disconnected and labor-intensive processes, leading to risks of product loss and compliance failures – because when mapping, monitoring, and calibration are handled separately, data gets lost, things fall between chairs, and audit reporting becomes unnecessarily time-consuming.

At Eupry, we believe that temperature compliance should not be this hard – and that is what our solution is all about.



Make temperature compliance a non-issue

Eupry offers a reliable, GxP-compliant solution that collects:

1. **Validation and mapping:** Specialized temperature mapping software, professional equipment, and specialists help you reduce risk and time spent on qualifications.

2. **Monitoring:** Wireless data loggers and the compliance platform give you a reliable, real-time monitoring overview.

3. **Data logger calibration:** No more worrying about keeping track of calibration. When due, we provide you with newly calibrated sensors tailored to your requirements, and your certificates are automatically stored in the system. Our patented solution enables your calibrations to be done in minutes, directly at your location, without the hassle of changing data loggers.

Simplify and trust your processes with a connected compliance solution – or pick and choose the right parts for you.

Why choose Eupry

Bringing everything together under one digital umbrella ensures that nothing is overlooked, provides a single source of truth for all your data, and lets you streamline compliance.

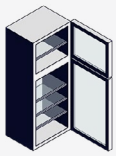
Having all temperature compliance in one, GxP-compliant solution will give you:

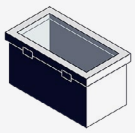
- **No calibration blockers:** Calibration without manual overviews, physical certificates, and switching data loggers with the fastest calibration process on the market.
- **Minimized time spent:** Automate previously manual, labor-intensive, and error-prone compliance tasks.
- **Easy audits in 3 clicks:** Eliminate audit stress with live monitoring, alarms, no process gaps, automatic data capture, and digital audit reports covering all fields.
- **No hunting for data:** A single source of truth for all your temperature compliance data; records, certificates, protocols, and everything else in one platform.
- **Complete compliance certainty:** ISO 17025-accredited calibration, ISO-9001-certification, and FDA 21 CFR Part 11-ready options – rest easy, you are fully compliant.

And much more.

Where and for what can you use the solution?

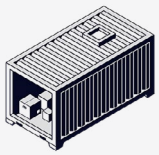
The solution is tailored to meet the temperature compliance requirements of pharma, logistics, and other highly regulated industries and can be utilized in any temperature-regulated environment — for instance:

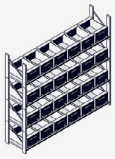

Fridges


Freezers


ULT freezers

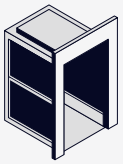

Incubators


Storage units


Warehouses

Distribution centers


Trailers


Walk-in-cooler

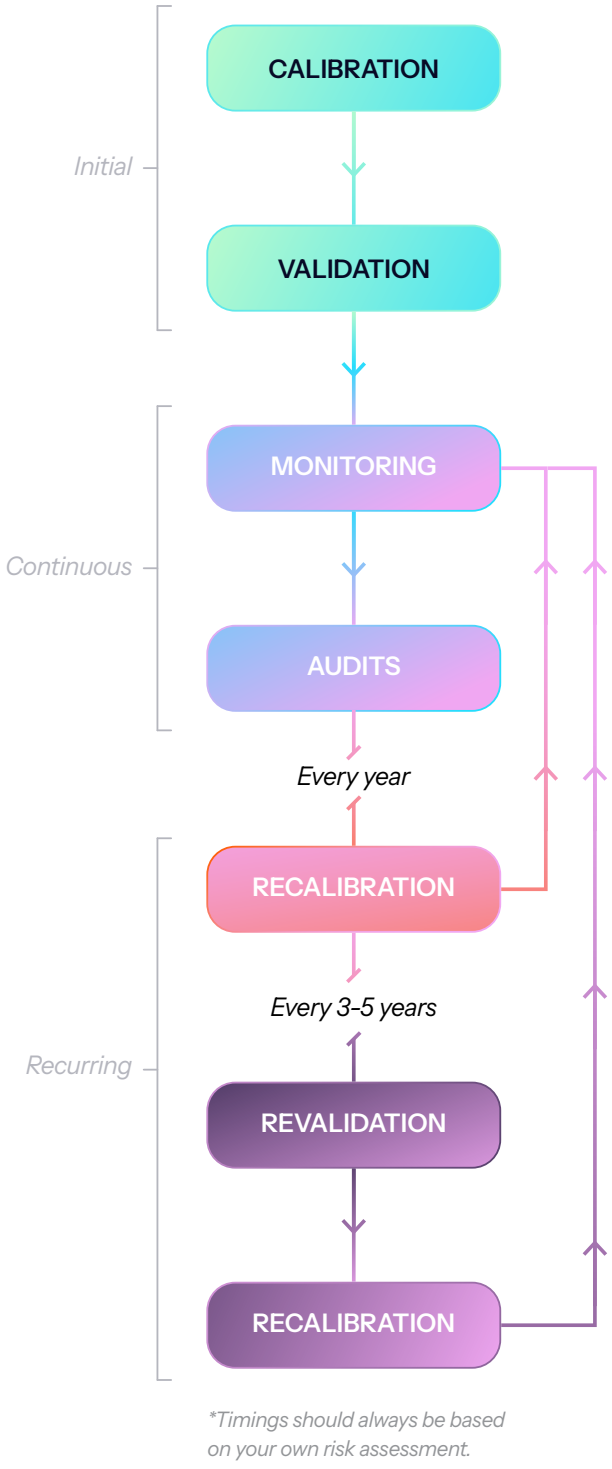
Use the solution to for instance monitor:


Temperature


Relative humidity

CO_2

One solution for temperature compliance throughout your unit's lifespan



*Timings should always be based on your own risk assessment.

The solution covers temperature compliance for the full lifecycle of your temperature-controlled unit.

How it works

Initial calibration

Whether for validation or monitoring needs, calibration is needed to ensure and document the accuracy of the measurements.

How Eupry helps:
All your loggers are calibrated to the standard you need in our ISO 17025-accredited laboratory.
More on page 16

Initial validation and mapping

After purchasing your unit, regulated industries often require validating – including temperature mapping – that it functions within the required limits.

How Eupry helps:
Rent all the professional equipment you need for mappings, create test plans, monitor studies live, and analyze findings in the temperature mapping software.
See how it works on page 19

Psst... Our validation team can also handle the process for you.

On-going monitoring

Continuous monitoring of the conditions is crucial when working with sensitive products.

How Eupry helps:
Wireless data loggers and relevant sensors measure and automatically transfer data to the monitoring platform, send alerts, and give you a live overview. More on page 14

"All of the loggers have proven their worth and **saved precious samples on several occasions** when freezers broke or were accidentally left open."

Anja Pomowski
Senior Scientist Antibody Production at Antikor

Tip! After using our mapping solution, you can transition to ongoing monitoring in minutes by removing superfluous loggers and switching software with a few clicks.

Audits

Auditing will, most likely, take place regularly throughout the lifetime of your unit.

How Eupry helps: The solution is built to make audits a non-issue.

- **Secure compliance:** The solution is built to meet GxP requirements, live data lets you act on issues immediately, and automation eliminates manual errors.
- **Show compliance:** Easily display all your temperature compliance data in the platform and generate audit reports with just 3 clicks.
- **Connect the dots:** The software ensures full traceability. Just choose the needed period, and everything is automatically included and linked: From certificates and sensors to measurements and alarms.

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Recalibration

Data loggers need to be recalibrated at a frequency depending on your requirements.

How Eupry helps: No more keeping track of calibrations – or certificates. When it is calibration time, we provide you with newly calibrated sensors, and all your certificates are digitally stored and can be located with just a few clicks. Data is automatically merged, and our patented technology allows you to handle all calibrations at once and in only minutes.
More on page 16

"**It took me under an hour to calibrate 40 loggers**
– including the time it took to find the refrigerators."

Kasper H. Christophersen
Research Associate at Novozymes

Revalidation and mapping

Regular remappings are necessary to guarantee the continued reliability of your unit.

How Eupry helps: Just like the initial validation, the solution supplies you with equipment and software that makes planning, executing, and reporting a walk in the compliance park. More on page 19

But I just need...

Temperature monitoring? A few data loggers? Equipment for a mapping?
Get in touch, and we will find a solution for you.

We stay on top of compliance

(so you do not have to)

All your compliance boxes? Consider them ticked, and remaining so. We keep up with every regulatory turn to keep the solution – and you – a step ahead.

FDA 21 CFR Part 11 module:
Compliance made simple

The system has a specialized module with functionality that makes it simple to comply with 21 CFR Part 11.
More about the software on page 38

ISO 9001 certified:
A mark of uncompromised quality

Our processes and services meet the highest quality benchmarks, ensuring efficiency and reliability. Our ISO 9001 certification underlines this commitment to quality management.

ISO 17025 calibration:
Included calibration without downtime

Choose between either ISO 17025 accredited or traceable 3-point calibration included in the service. Our patented technology means no spare loggers and no downtime.
More on page 16

Validated software and hardware:
Full IT and hardware validation

Software and hardware are fully validated to meet industry requirements and reduce the risk of costly errors or data integrity issues.

Qualification protocol:
IQ OQ Qualification protocol included

The included “Qualification Protocol” helps you achieve GxP compliance through a process that ensures proper installation, correct setting configuration, and effective deviation management procedures.

Data security:
Secure storage of all your data

Data security is handled according to ISO 27001 and Eudralex Vol. 4 Annex 11 standards. All data is encrypted using AES and stored with continual backup procedures.

Personal data:
Safe storage of personal data

Personal data is handled according to CCPA and GDPR standards, providing an extra layer of assurance for your data’s security.

Compliance rated high by Novo Nordisk

Novo Nordisk audited our temperature monitoring solution and awarded it a **“High” compliance rating.**

“Eupry Aps provided enough documentation to conclude that **procedures and efficient controls to ensure compliance are in place and well-functioning as intended** in all key areas/processes, and that **management and employees displayed strong understanding and positive attitude** in regard to compliance”

ISO AUDIT REPORT
by Novo Nordisk, June 2023

The key components of the solution

Every creation is a sum of its parts – here are the ones that make up the temperature compliance solution.

1. The monitoring part

Audit-ready temperature monitoring in real-time

Eupry's refined temperature monitoring solution minimizes risks and time spent with Wi-Fi-based and automated tracking of your compliance on any screen and in real time.

- **Audit reporting in just 3 clicks**
- **Reliable Wi-Fi-based monitoring in real-time**
- **Easy and quick calibration included**
- **Fully automated data transfer**

How it works

1. **You receive the equipment:** You receive, install, and connect the wireless data loggers to the monitoring platform in only minutes.

2. **Data is transferred in real-time:** The loggers automatically transfer your data through Wi-Fi to the included cloud-based platform – no more USB transfers.

3. **You control compliance (on any screen):** Digital overview, live monitoring, and custom alarms guarantee that you are always on top of your monitoring.

4. **Deviations become a non-issue:** You get SMS/e-mail alerts, and the tool automatically documents deviations, making reporting smooth sailing.

5. **You have all the data you need:** Find full audit reports, calibration certificates, records, and all other temperature data in one digital place.

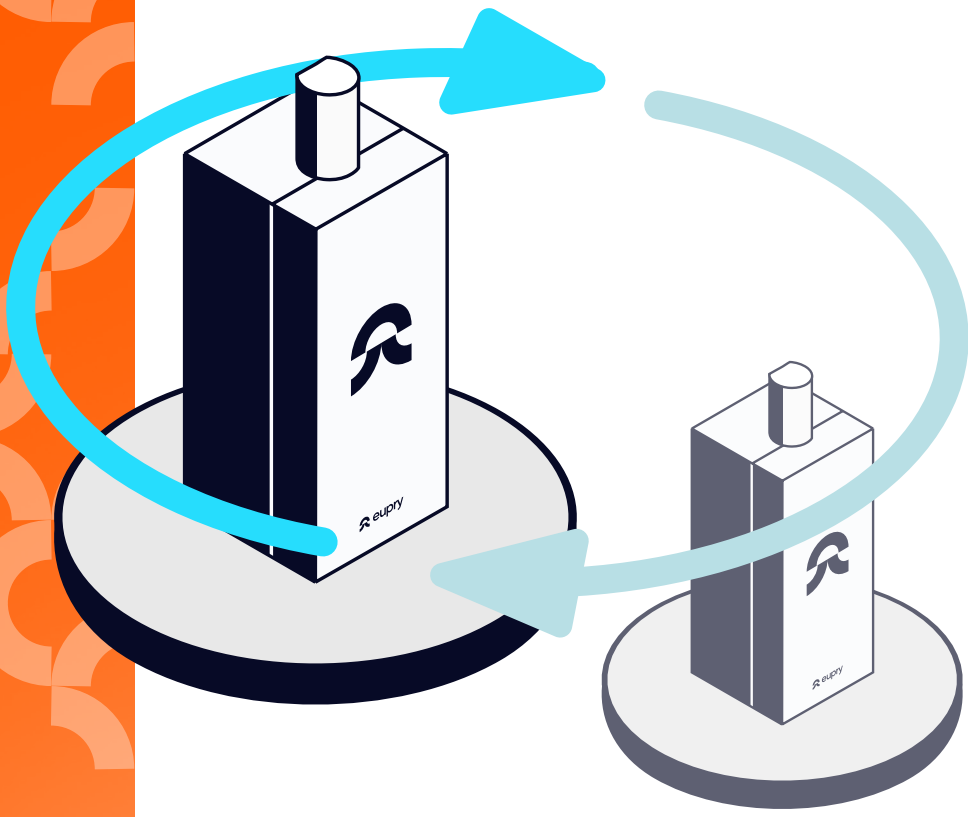
6. **Calibrate without swapping devices:** Recurring calibration is included, and you can calibrate all equipment in one go. See more on page 16

"The Eupry **data loggers were easy to set up**, the flexibility of the system offers the possibility to **be aware of changes when there is a problem**, and more importantly, the archives, which hold all data in the cloud, **can be accessed at all times**."

Elvis Bergue
Electromechanical and Water Manager at Axonova

Using Eupry, all you have to do is:

- act on potential alarms
- switch sensors once a year*



2. The calibration part

Easy and *(extremely)* quick calibration with a click

Idle time, manual overviews, interruptions, and certificate scavenger hunts: Data logger calibration can be taxing. At Eupry, we believed that there had to be a better way.

So we designed it: A better approach to calibration – and built the market's fastest solution in the process.

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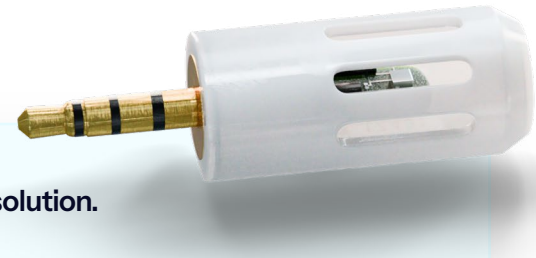
How it works

Get your (ISO 17025-accredited or traceable) calibrations done in less than a minute without changing out data loggers with our patented technology.

Here is how it works:

1. **You are notified:** The system monitors and notifies you about upcoming calibrations. No more worrying about deadlines.
2. **We send you what you need:** We send you newly calibrated "sensor tips"*.
3. **You replace the tips:** Simply replace the sensor tip on each logger.
4. **Data is connected:** The new certificate is automatically uploaded and connected to the relevant unit, giving you easy access and traceability to historical and current certificates.
5. **Certificates are stored:** Your certificates are now safely stored within our software and can be accessed and included in audit-ready reports with a few clicks.

That is it. Easy-peasy.



***The Eupry sensor tip is the cornerstone of the solution. The unique feature means that you:**

1. no longer have to replace the entire data logger; just swap out the sensor tip (we automatically provide you with new ones), and you are done.
2. get access to historical, comparable data – across calibrations – year after year. Once the sensor is replaced, the new certificate is automatically uploaded and linked to the same unit making trend analysis possible.

Learn more on page 25.

This is Eupry.

It is **one of a kind** and creates the ability to perform real trending.

NO MORE	BECAUSE
Keeping track of calibration schedules	The platform does it for you
Searching for calibration certificates	All certificates are automatically stored in the platform and connected to the unit
Staggered calibration becaus of limited spare loggers	The sensor tips mean you can do *all* calibrations in one go
Operational downtime waiting on calibration	Calibration is done in minutes without disturbing operations
Unexpected calibration costs	Everything is included
Manual data merging	Data is automatically linked to the unit across calibrations

"The automated calibration process is **particularly convenient where external calibrated sensors are replaced with new calibrated ones automatically**."

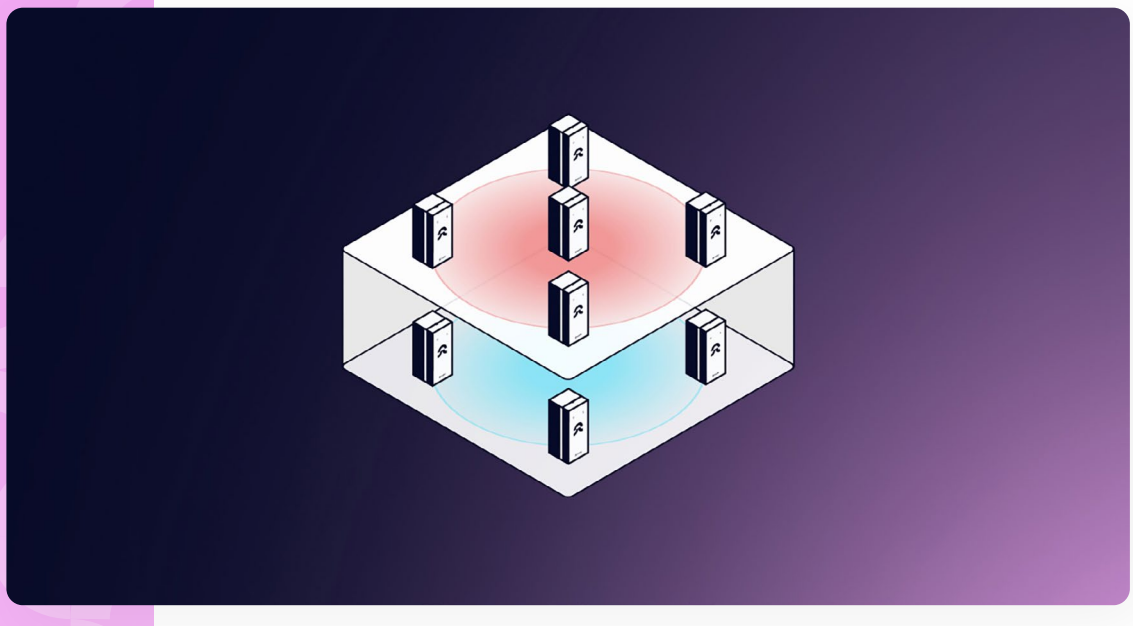
FREJA

Eric Clausen
Distribution Manager at Freja

"The calibration of the Eupry temperature loggers is **easy and quick.**"

novozymes

Kasper H. Christophersen
Research Associate at Novozymes



3. The mapping part

Uncomplicated temperature mapping with reliable results

With Eupry's mapping solutions, you get fast and precise results with less work.

- GxP-compliant equipment and flexible rental
- Specialized temperature mapping software
- Easy digital analysis and reporting
- Validation specialists on call (or on-site)
- Minimal operational hold-ups and costs

How it works

Our engineer-led temperature validation services, built for pharma and pharmaceutical logistics, enable GxP-level reliability while saving you both time and costs.

You can choose between:

1. **Renting a mapping kit:** Get all the GxP-compliant equipment necessary conduct your study, and simply return it afterward to avoid maintenance concerns and ensure cost-effectiveness.

2. **Remote mapping service:** Let our validation team take care of everything from protocols, test plans, and grid plans to risk assessments and reporting. All you have to do is install the loggers, which is as easy as it gets.

3. **The full service:** Our team handles everything – planning, installment, and reporting.

Or somewhere in between – we will find a way that works best for you.

Talk to a validation specialist

"Eupry's mapping process was **fast, precise, and user-friendly**."

Andreas Schultz
Quality Manager at Worldwide Flight Service

Legal basis and guidance

The mapping solutions are designed with a legal basis in cGMP, USP <1079>, and EudraLex Volume 4 Part 1 Chapter 3, and based on WHO's mapping guidelines (supplement 8 and 7 and annex 8), DKD-R 5, FD X 15-140 (French standard), and the ISPE Standard "Controlled Temperature Chamber Mapping and Monitoring".

How the mapping kit works

Go hands-on with a GxP-compliant mapping kit and temperature mapping software designed to perform quick and reliable studies.

- ✔ **Consult our specialists:**
  Our experts help define the ideal equipment setup for you.
- ✔ **Receive the kit:**
  You receive the mapping kit.
- ✔ **Plan the study:**
  Create test plans* and define logger locations in the software.
- ✔ **Set up in minutes:**
  Place the equipment and connect all loggers with a click.
- ✔ **Track the mapping:**
  The loggers send data to the software to let you track the process live and act on issues right away.
- ✔ **Create your digital report:**
  The temperature mapping software is designed to let you easily analyze data, create graphs optimized for mappings, and generate digital reports with minimal effort.
- ✔ **Return the kit:**
  Once done, return the kit with the included return label.
- ✔ **Exit calibration is done:**
  We conduct exit calibration, and you can access certificates in the software, maintaining your audit trail.

* Need a hand? Our team specializes in risk mitigation and can guide you.

The GxP-compliant kit contains

Based on your needs, the kit will contain:

- Calibrated wireless data loggers
- Access to our temperature mapping software
- 4G router(s) including SIM card

How the full mapping service works

From protocol to conduction of the study and finalized report: Our team of validation specialists can handle every step of the way.

1. The project is scoped together with one of our specialists.
2. Our validation team develops the protocol, and you review and sign off.
3. Our specialists conduct the temperature mapping study on your premises*.
4. Your results are analyzed, and you receive the final report.
5. If relevant, we train your team in the process for future studies.

* The full mapping service also comes in a remote version. Our experts still take care of everything from protocol to the final report – you simply place the data loggers yourself.

4. The technical bits

Software and hardware meant for each other

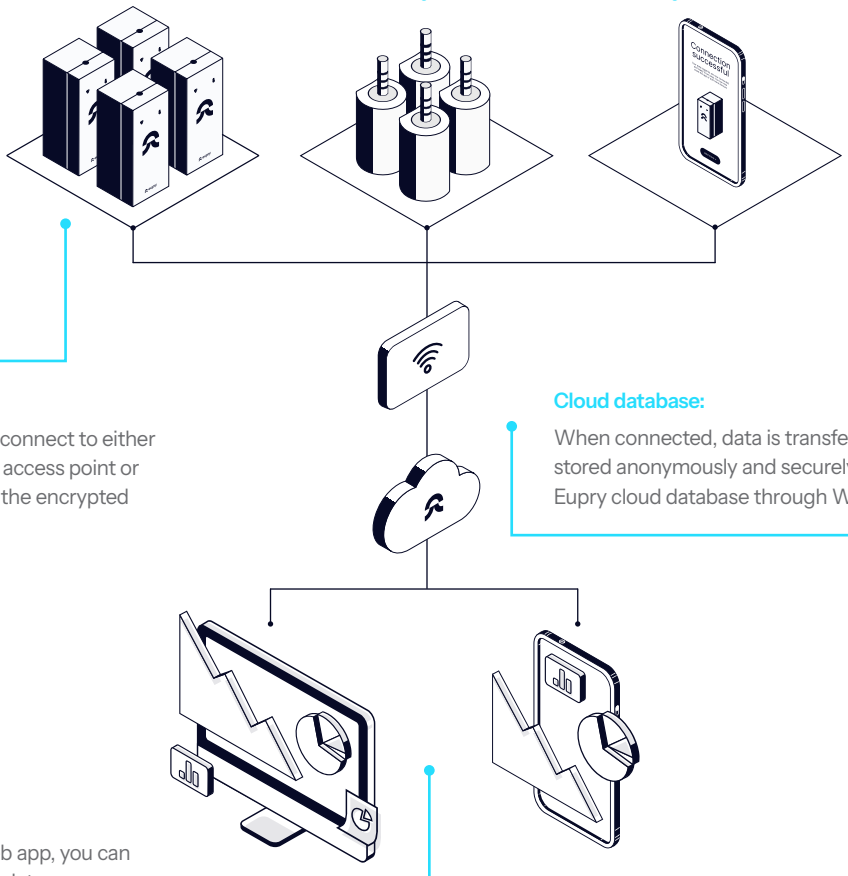
Built to match – our web applications and wireless data loggers are designed for each other and connect with just a click.

External sensor:

The relevant external sensor is connected to the Eupry data logger.

Eupry Connect:

The data loggers are connected to your local Wi-Fi by using our app “Eupry Connect”.



Wi-Fi data loggers:

The wireless data loggers connect to either the Eupry-provided Wi-Fi access point or your local Wi-Fi and send the encrypted data through Wi-Fi.

Cloud database:

When connected, data is transferred and stored anonymously and securely in the Eupry cloud database through Wi-Fi.

The platform:

Through the mobile or web app, you can easily view and export the data.

Alarms:

Customize alarms in the web app and receive SMS and e-mail notifications in case of deviations.

- ✔ **Accredited calibration**
- ✔ **Swappable sensors**
- ✔ **Stores data internally if offline**
- ✔ **Historic data across calibrations**
- ✔ **Hardware validated**
- ✔ **Reliable backups**

THE DATA LOGGERS

Reliable wireless data loggers for any need

The solutions center around our lightweight, wireless, and Wi-Fi-based data loggers.

How the data loggers work

1. The sensor relevant to your needs (see the options here) is clicked directly on the logger.
2. Easily connect the data logger using our free app “Eupry Connect”.
3. Place the data logger in the unit.
4. The data loggers now automatically transfer data to the platform through Wi-Fi*.
5. In case of deviations, the logger sends you SMS or e-mail alerts in real time.

* The loggers are always on, even if Wi-Fi is not, securing the integrity of your data at all times, under all conditions.

No hidden costs

With the Eupry data loggers, you get a reliable tool with no unforeseen costs. Get complete financial predictability with included calibration and full warranty. If it breaks, we will replace it (but it won’t).

Long lifespan

The technology is designed to maintain high uptime, meaning that the data logger can function for up to two years on regular AA batteries.

Smart naming conventions (Kyle is in the fridge)

Every one of the wireless data loggers comes with a name to make them easier for you to locate.

The sensors are connected to the data logger by simply clicking it on.

THE SENSORS

Sensors and probes for any need

The solution includes sensors for any monitoring need – from ultra-low to extremely high temperatures, relative humidity, and CO_2. Find them all from page 27

Why external sensors – and how does it work?

You might be used to the sensor being integrated into the data logger. But all Eupry sensors are external.

Why? To **remove the cumbersomeness of calibration.** The sensors work as changeable "tips" that allow you to calibrate in seconds without switching data loggers. This makes our patented solution the most cost-effective calibration solution on the market. More on page 16

Which sensor should you choose?

Find the equipment that fits your needs
– or let us help you decide.

Book a talk today

P1T:

Temperature sensor

This sensor measures **temperature** ranges from 50°C to +50°C/-58°F to 122°F, and is often used in fridges, warehouses, and storage containers.

TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-50 °C to +50 °C (-58 °F to 122 °F)
Temperature resolution	0.01 °C (0.018 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±0.1 °C (0.018 °F) [@ –20 °C to +50 °C] ±0.3 °C (0.54 °F) [@ –50 °C to +50 °C]
Temperature repeatability (precision)	±0.01 °C (0.018 °F)
Temperature drift/year	±0.03 °C (0.054 °F)
Thermal response time (τ)	60s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Digital / Silicon bandgap sensor
Diameter	11 mm
Length (Installed)	22 mm
Length (Total)	33 mm

P1TH:

Temperature and humidity sensor

This sensor measures **temperature** and **humidity** and is often used in fridges, warehouses, and storage containers.

TECNHICAL SPECIFICATIONS: HUMIDITY

Humidity operating range	20-80% RH (Non-condensing)
Extended humidity operating range	0-99% RH (Non-condensing)
Humidity resolution	0.01% RH
Humidity Accuracy	Dependent on Calibration
Typical humidity accuracy	± 1.5% RH [0-80 %RH] ± 2% RH [80-99% RH]
Typical humidity repeatability (precision)	0.08% RH
Humidity drift/year	<0.25% RH (@ 0-80% RH)

TECNHICAL SPECIFICATIONS: TEMPERATURE

Temperature operating range	2 °C to 50 °C (35.6 °F to 122 °F)
Temperature resolution	0.01 °C (0.018 °F)
Temperature accuracy	Dependent on Calibration
Typical temperature accuracy	±0.1 °C (0.18 °F) [@ 20 °C to 50 °C] ±0.2 °C (0.36 °F) [@ 2 °C to 20 °C]
Temperature repeatability (precision)	±0.04 °C (0.072 °F)
Temperature drift/year	±0.03 °C (0.054 °F)
Thermal response time (τ)	60s

TECNHICAL SPECIFICATIONS: PRODUCT

Sensor type	Digital
Diameter	11 mm
Length (Installed)	22 mm
Length (Total)	33 mm

P1CTH:

Temperature, humidity, and CO_2 sensor

The sensor measures **temperature**, **humidity**, and **CO_2**, and is, for instance, used in **CO_2** incubators.

TECNHICAL SPECIFICATIONS: TEMPERATURE

Temperature operating range	2 °C to 50 °C (35.6 °F to 122 °F)
Temperature resolution	0.01 °C (0.018 °F)
Temperature accuracy	Dependent on Calibration
Typical temperature accuracy	±0.1 °C (0.18 °F) [@ 20 °C to 50 °C] ±0.2 °C (0.36°F) [@ 2 °C to 20 °C]
Temperature repeatability (precision)	±0.04 °C (0.072 °F)
Temperature drift/year	±0.03 °C (0.054 °F)
Thermal response time (τ)	60s

TECNHICAL SPECIFICATIONS: HUMIDITY

Humidity operating range	20-80% RH (Non-condensing)
Humidity resolution	0.01% RH
Humidity Accuracy	Dependent on Calibration
Typical humidity accuracy	±1.5% RH [0-80% RH] ±2% RH [80-99% RH]
Typical humidity repeatability (precision)	0.08% RH
Humidity drift/year	<0.25% RH (@ 0-80% RH) >0.25% RH (@ 80-100% RH)

TECNHICAL SPECIFICATIONS: CO_2

	Typical range:	Extended range:
CO_2 operating range	0-25% - 0-250,000 ppm	25-100% - 250,000-1,000,000 ppm
CO_2 resolution	15 PPM (16 bit)	15 PPM (16 bit)
CO_2 accuracy	Dependent on Calibration	Dependent on calibration
Typical CO_2 accuracy	±0.7% [5% - 50'000 ppm] ±0.8% [8% - 80'000 ppm]	±0.7% [5% - 50'000 ppm]
CO_2 repeatability (precision)	0.2 vol %	0.2 vol %

TECNHICAL SPECIFICATIONS: PRODUCT

Sensor type	Digital
Diameter	11 mm
Length (Installed)	22 mm
Length (Total)	33 mm
Cable extender	100 mm

P2T:

Temperature silicone probe

A sensor measuring temperatures down to -90°C/-130°F. Designed for conditions too extreme for the actual data logger, the probe has a flat silicone cable that can pass uninterrupted inside units, protecting door seals. The probe is mainly used in freezers.

TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-90 °C to +50 °C (-130 °F to 122 °F)
Temperature resolution	0.03 °C (0.054 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±1.0 °C (±1.8 °F) [@-90 °C to +50 °C]
Thermal response time (τ)	9s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Digital / PT100
Flat cable thickness	1 mm
Flat cable bending radius	6 mm
Total cable length	2.5 m

P5T:

Temperature silicone probe (5m)

Like the other temperature silicone probe (P2T) but with a five-meter cable.

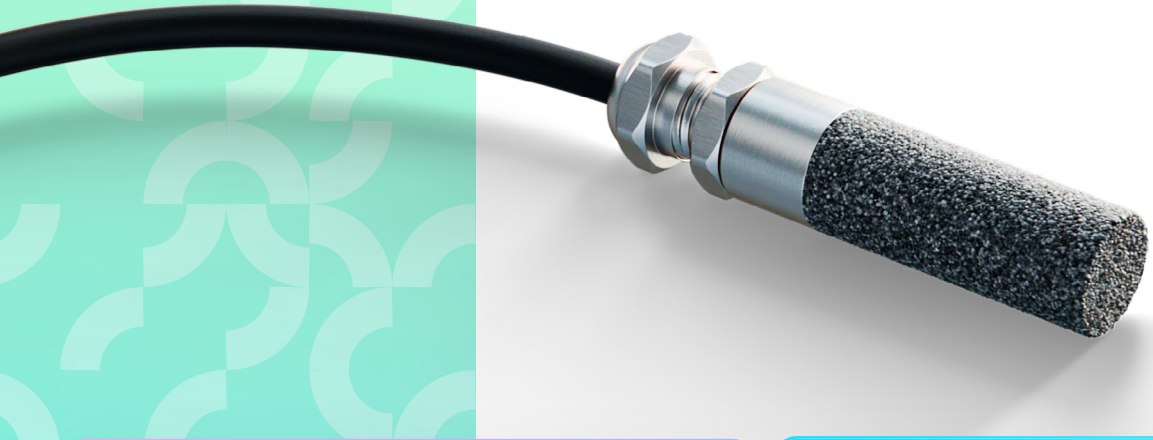
TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-90 °C to +50 °C (-130 °F to 122 °F)
Temperature resolution	0.03 °C (0.054 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±0.5 °C (±0.9 °F) [@-90 °C to +50 °C]
Thermal response time (τ)	9s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Digital / PT100
Flat cable thickness	1 mm
Silicone cable length	4 m
Total cable length	5 m

P2TH:

Temperature and humidity probe

This sensor measures both temperature and humidity.



TECNHICAL SPECIFICATIONS: HUMIDITY

Humidity operating range	20-80% RH (Non-condensing)
Extended humidity operating range	0-99% RH (Non-condensing)
Humidity resolution	0.01% RH
Humidity Accuracy	Dependent on Calibration
Typical humidity accuracy	± 1.5% RH [0-80 %RH] ± 2% RH [80-99% RH]
Typical humidity repeatability (precision)	0.08% RH
Humidity drift/year	<0.25% RH (@ 0-80% RH)

TECNHICAL SPECIFICATIONS: TEMPERATURE

Temperature operating range	2°C to 100 °C (35.6 °F to 212 °F)
Temperature resolution	0.01°C (0.018°F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±0.1 °C (0.18 °F) [@ 20 °C to 100 °C] ±0.2 °C (0.36 °F) [@ 2 °C to 20 °C]
Temperature repeatability (precision)	±0.04 °C (0.072 °F)
Temperature drift/year	±0.03 °C (0.054 °F)
Thermal response time (τ)	60s

TECNHICAL SPECIFICATIONS: PRODUCT

Sensor type	Digital
Max diameter	16 mm
Total cable length	2.5 m

P2T1:

Temperature teflon probe

This sensor measures temperature, and the teflon cable is very robust, which makes it good for ultra-low freezers or nitrogen tanks.

TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-200 °C to +200 °C (-320.8 °F to 392 °F)
Temperature resolution	0.03 °C (0.054 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±1.0 °C (±1.8 °F) [@-90 °C to +200 °C]
Thermal response time (τ)	9s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Digital / Silicon bandgap sensor
Teflon cable thickness	3 mm
Total cable length	2.5 m
Cable length	1.5 m
IP code	IP68

P5T1:

Temperature teflon probe (5m)

Like the other temperature teflon probe (P2T1) but with a five-meter cable.

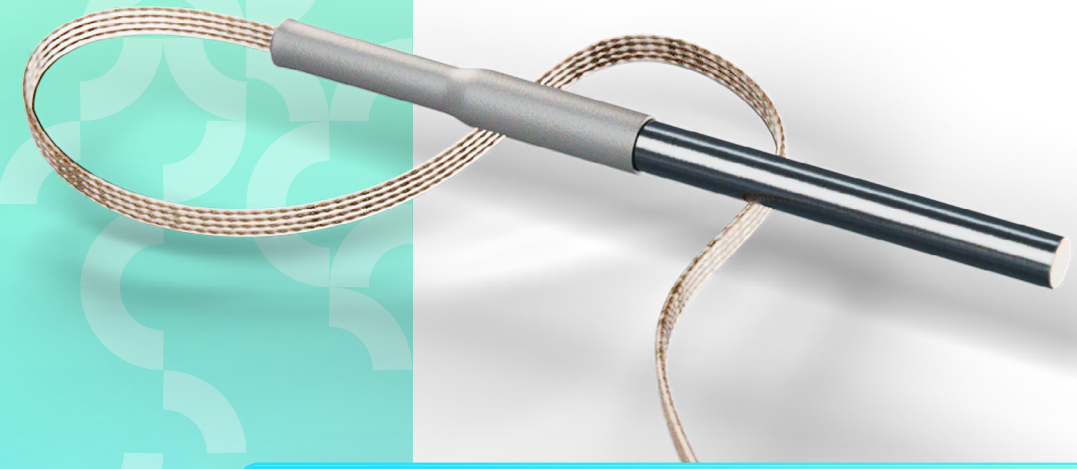
TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-200 °C to +200 °C (-320.8 °F to 392 °F)
Temperature resolution	0.03 °C (0.054 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±1.0 °C (±1.8 °F) [@-90 °C to +200 °C]
Thermal response time (τ)	9s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Digital / Silicon bandgap sensor
Teflon cable thickness	3 mm
Teflon cable length	4 m
Total cable length	5 m
IP code	IP67

P3T:

High-precision temperature probe

This probe is mainly used in freezers with requirements of higher precision than our temperature probe (P2T) can provide. It has the same thin silicone cable, but a shorter blackjack cable.



TECNHICAL SPECIFICATIONS:	
Temperature operating range	-55 °C to +150 °C (-67 °F to 302 °F)
Temperature resolution	0.01 °C (0.018 °F)
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±0.1 °C (0.018 °F) [@ –20 °C to +50 °C] ±0.3 °C (0.54 °F) [@ –55 °C to +150 °C]
Temperature repeatability (precision)	±0.01 °C (0.018 °F)
Temperature drift/year	±0.03 °C (0.054 °F)
Thermal Response Time (τ)	9s
Sensor Type	Digital
Length	1.8 m

P2T2:

Temperature thermocouple probe

The thermocouple sensor can measure very high temperatures, up to 1100°C.

TECNHICAL SPECIFICATIONS: TEMPERATURE	
Temperature operating range	-40 °C to 1100 °C
Temperature resolution	0.25 °C
Temperature accuracy	Dependent on calibration
Typical temperature accuracy	±10 °C
Thermal Response Time (τ)	9 s

TECNHICAL SPECIFICATIONS: PRODUCT	
Sensor type	Thermocouple
Teflon cable thickness	1.5 mm
Stainless steel cap thickness	1.5 mm
Total cable length	2.5 m
Certifications	RoHS

THE PLATFORM

All the data you need in ONE place

No more wasting time hunting for information. Eupry's web app collects all your temperature compliance data in one platform.

For instance, find:

- Calibration certificates
- Monitoring records
- Deviation documentation
- Audit-ready reports
- Mapping test plans
- Validation results

And much more.

"I can **easily monitor all data from my laptop and cellphone**. I know if something is wrong, as I receive alarm notifications instantly."

Zhe Liu
Process engineer at Quantech

How the monitoring platform works

Data is automatically transferred from the wireless data loggers to the platform.

Among other things, you will find:

- **Monitoring overview:** Watch real-time and historic measurements from any screen in the user-friendly platform.
- **Deviation management and alarms:** Easily identify, respond to, and document deviations with customizable email and SMS alarms and deviation management tools.
- **Full audit trail:** Automatic time stamps, event logging, calibration certificates linked to loggers, unique users, and more secure your audit trail.
- **Audit reporting:** Generate and export audit-ready reports for any period and across all fields with just 3 clicks.
- **FDA 21 CFR Part 11 module:** A specialized module offers functionality that lets you easily comply with 21 CFR Part 11.
- **Data logger overview:** Easily find the status and location of all your data loggers.

"With the audit trail, **it is easy to process a non-conformity or prove that everything is within set parameters**, so we can have the report ready in compliance with GMP requirements."

Dora Adanic
Chief Operating Officer at Genera Research Ltd.

Your IT department will love it

The platform is fully validated (as is the hardware), accessed through a web app (no downloads are needed), and cloud-based (giving you a reliable data source). In other words, it is all set to become an IT favorite.

See for yourself

Book a free demo with one of our specialists to see the platform and ask any questions you might have.

Book your 15-minute demo

How the temperature mapping software works

In the temperature mapping software, you can plan and track your mapping study, analyze findings, and generate reports – all in minimum time.

- **Automated data collection minimizing time spent**
- **Instant troubleshooting preventing costly delays**
- **Easy digital analysis and reporting**

In the software, you can:

1. **Plan your temperature mapping**
   - Add facilities and units to be mapped
   - Review data logger and sensor info
   - View calibration certificates

2. **Create test plans**
   - Document training of your team
   - Define data logger placement

3. **Conduct your mapping study**
   - Run stability tests
   - Add comments to specific tests
   - Register non-conformities

4. **Analyze findings and create your report**
   - Use Easymap to analyze data
   - View graphs, box plots, and tables developed for mappings
   - Generate and export reports

12 essential software features included with Eupry

(and this is just a the tip of the iceberg)

SMS, e-mail, and phone alarms

FDA 21 CFR Part 11 module

Advanced audit report exports

Unlimited users with permission control

Digital calibration certificate

Flexible alarms and grey-zone filter

Historical data across calibrations

Automatic deviation documentation

From 3 years to unlimited data storage

Access from your smartphone

Backup and up-time guarantee

Integrations via Secure REST API

ADD ON;

IQ and OQ of your unit – one provider for the full validation process

As an extra service, our team can also manage your units' installation qualification (IQ) and operational qualification (OQ), saving you time, hassle, and cost compared to handling the process internally or coordinating with multiple providers.

- ✔ **One provider for the full validation**
- ✔ **Cost- and time-optimized process**
- ✔ **Full GxP compliance confidence**

How it works

- **Installation qualification (IQ):** Our team verifies that the unit is installed correctly according to the manufacturer's specifications.
- **Operational qualification (OQ):** We ensure that the unit meets all URS requirements, such as maintaining the required conditions and triggering alarms.

The **performance qualification (PQ)** validates the unit's performance under actual working conditions and is covered in our different mapping offerings (see page 19).

Temperature compliance experts on call

Support that is always there (but never in the way) — Eupry is built by engineers, quality specialists, and temperature compliance enthusiasts tuned in to every ISO update and FDA announcement. This is how we help you, and the solution, stay up to date and how we can support you with your compliance whenever you need it.

We are there – all day, all week.

"The service you get from Eupry is a lot better. **You can always get in contact with them, and they are very professional**."

Anders Rasmussen
Senior Logistic Manager, Dechra Pharmaceuticals PLC

What do others say?

"We chose Eupry because they offer a **cost-effective, turn-key solution that reduces a lot of wasted time.** The solution digitalizes and automates all of our previously manual procedures."

Christina Andersen
Quality Manager at DTU Health Tech

"I have **saved around 50-70% of time** handling temperature monitoring after using Eupry."

Anders Rasmussen
Senior Logistic Manager at Dechra

"The **data can easily be accessed merely seconds** after setup."

Pia Schytte Hansen
Head Lab Technician at Thermo Fisher Scientific

"It is much more fun to work when you have an automatic and wireless system like Eupry (...) **It saves a lot of time to just be able to click and say: 'Please make a graph for this sensor and this period**."

B SCIENCE

Thomas Schmidt
CTO at B Science Global

"I can do the data collection and reporting remotely. This applies well to the US."

BIOCAIR
MOVING SCIENCE FORWARD

Daniel Wassell
Equipment Validation Engineer at Biocair US

"As a market-leading supplier of freezers, Holm & Halby has distributed several different monitoring solutions, but never one that has been as **easy and user-friendly as Eupry's**."

Holm & Halby

Charlotte Schou Madsen
Product Manager at Holm & Halby

WFS

Worldwide Flight Services

"I have nothing but praise for Eupry. **They have invented a system, that is simple and does everything it promises**. Their services ensure high standards while saving time and resources.

The loggers are reliable and the user interface is logical, intuitive, and detailed in a way that I can easily monitor the daily operation and pull out reports documenting historical data to suit requests and requirements from both customers and auditors."

Allan Witt
Safety and Security Manager for GDP at Worldwide Flight Service (WFS).

"When we began our research of finding a company, **that could help us with meeting the strict GDP standards**, we quickly became aware of Eupry. Eupry stood out among their competitors, as they provide a customized mapping process, GDP consulting, and mapping."

Andreas Schultz
Scandinavian Quality Manager at WFS.

Novozymes

"The calibration of the Eupry temperature loggers is **both easy and quickly done**. I received a box by mail with the new probes and batteries. Everything worked and fitted as it should and the reliability of the loggers was proved. **It took me under an hour to calibrate about 40 loggers – including the time it took to find the refrigerators**.

The Eupry loggers are important for each of our departments in keeping a high quality of all freezers and refrigerators. **I can recommend Eupry to anyone**."

Kasper H. Christophersen
Research Associate at Novozymes

DSV Sweden

"**The response times and availability from Eupry were very impressive**. We have continuously been in contact with each other every step of the way. **They helped us carry out various tests and assisted in the interpretation of the data** – coming up with suggestions or feedback on whether the results were compatible with our requirements. **It was undoubtedly a well-put partnership.**"

"We experienced the Eupry team to be **very flexible and responsive**. This was very much necessary and appreciated, as our construction schedule ran into quite a few unforeseen bumps along the way."

Joakim Sund
Qualitative Assurance Specialist at DSV Sweden

Genera Research

“Our main challenge is to monitor the temperature conditions outside the laboratory’s working hours (...) The readings are manually entered into the temperature list, which is a very time-consuming process.

Eupry is a real refreshment (...) All data is traceable and easy to follow, and we are especially pleased with the fast calibration service that is also a part of the service.

Eupry is a time saver. In comparison with manual temperature monitoring, Eupry saves us more than 500 working hours yearly, allowing us to use that time for other important tasks.

Automated monitoring allows us to relax outside of working hours, knowing that the temperature is automatically recorded and easily monitored via the Eupry app, giving us reliable alarms if a deviation occurs.”

Dora Adanic
Chief Operating Officer at Genera Research

Genuine trend analysis made real

Imagine a solution where all temperature compliance data for a storage unit – across time, data loggers, personnel changes, and SOP updates– is stored in one place.

This is Eupry

All data is gathered in one profile linked to each unit, transforming how we interpret data trends and turning the utopia of real trend analysis into reality.

A solution that changes with you

Scale up or down with one call

As your operation expands into new fields or locations, our diverse sensor range and cloud-based system adapt seamlessly – and the subscription model means that adjusting your setup is only a phone call away.

"Eupry helps us deliver high-quality products by **helping us assure the quality of our processes and storage conditions**. We distribute to 70-plus countries across the world. With Eupry, we have **a proper overview of what is going on in all our equipment across all of our sites**."

Allan Toft Jacobsen
Lab Specialist & COO at European Sperm Bank

Installation without fuss:

How to install the solution

No one changes their monitoring solution for fun, so we made onboarding as easy as possible to ease this (necessary and worth it) pain.

How to get started:

1. Receive the data loggers and sensors by mail.
2. Connect the loggers to Wi-Fi using the “Eupry Connect” app.
3. Plug in the sensor and place the data loggers.
4. Log into the platform, invite users, and create unit profiles.
5. Connect each data logger to the relevant units.

That is it.

Many of our customers handle the onboarding themselves in less than a day, but should you prefer, our team is ready to answer questions or even handle the setup for you.

“A short way of describing our experience with the solution is simply that **it is really easy to use**. **Both to get started and to work with in day-to-day operations**.”

Allan Toft Jacobsen
Lab Specialist & COO at European Sperm Bank

Founder story:

Why we started Eupry

"Traditionally, temperature compliance has been characterized by disconnected, labor-intensive, and often chaotic processes.

When mapping, monitoring, and calibration are handled separately, risks multiply, data gets lost, and audit reporting becomes muddy, leading to time-wasting information hunts, frustration, and, ultimately, risks of compliance failures, product loss, financial damages, and reputational harm.

That is why we built Eupry. To give companies in regulated industries, like yours, one connected process for temperature compliance.

In the last decade, we have helped hundreds of pharma, biotech, and logistics organizations minimize risks and saved millions of hours on manual compliance.

I would love for you to give it a try as well."

Best regards, CEO and co-founder of Eupry, Christian Jacobsen

eupry

Ready to get started?

Gain full control of your temperature compliance today.

Book a demo Contact us

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