

Life Science
Compliance

Solution Catalogue



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Thermal Validation Unlimited



Validation Without Limits. Compliance Without Compromise

From validation equipment to turnkey on-site validation support.
We're your long-term partner throughout your validation journey.

Unlimited Equipment, Expertise, & Partnership

Thermal Validation Unlimited combines hardware, software, and services into a single, scalable validation framework.

Thermal Validation Software

Consistent execution, data integrity, and inspection-ready documentation.

Thermal Validation Hardware

Calibrated validation equipment, ready for deployment whenever studies are required.

Thermal Validation Services

Expert support to complement internal resources – from planning through execution.









Buy...

When the equipment is business-critical and used permanently.

- Full control and asset ownership
- Ideal for continuous, daily operation
- Lowest total cost over time

Rent...

When demand is temporary, unpredictable, or time-critical.

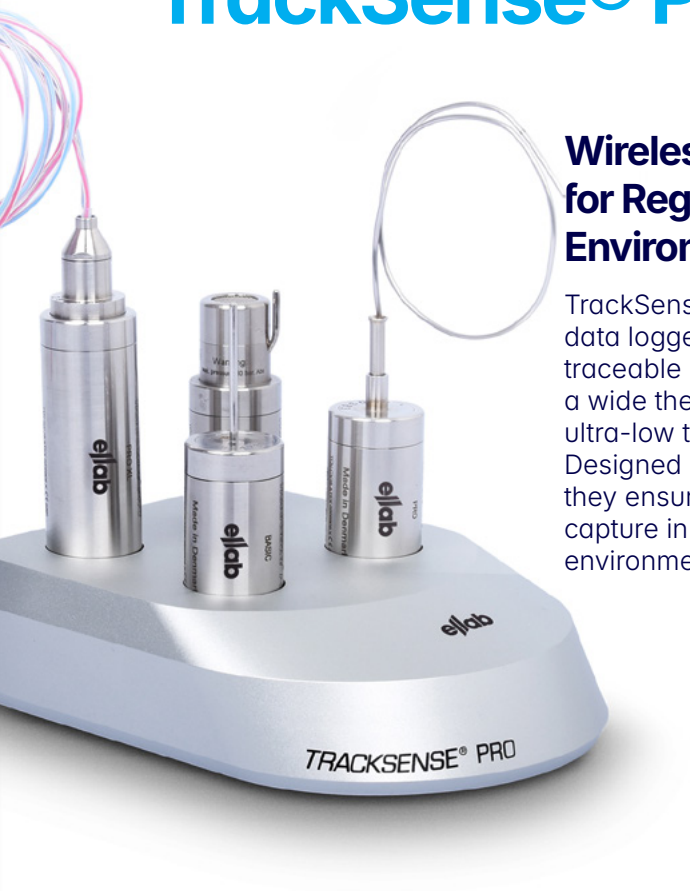
- Perfect for projects, peaks, or urgent timelines
- Calibrated, validated, ready-to-use equipment
- Batteries, repairs and calibrations included
- No upfront investment

Lease...

When you need stability without tying up capital.

- Long-term availability with budget control
- Option to upgrade over time
- OPEX friendly monthly costs

Wireless Validation Data Loggers
TrackSense® Pro



Wireless Validation for Regulated Environments

TrackSense Pro® validation data loggers deliver accurate, traceable measurements across a wide thermal range – from ultra-low to high-heat processes. Designed for GMP workflows, they ensure reliable data capture in demanding validation environments.

Flexible, Scalable, and Designed for Efficiency

With interchangeable sensors, options for live data, and specialized logger bodies, TrackSense® Pro adapts to map the most demanding applications in life science organizations.



Adaptable Validation for Any Application

- Widest range of specialty sensors and measuring parameters.
- Interchangeable sensors for flexibility.
- Live data options available for critical studies.
- Purchase, rent, or lease options.
- Calibrated, traceable, and ready-to-go.
- Stored data backups.
- Simultaneous logger start-up.

TrackSense® Pro Sensors & Parameters



Rigid Temperature Sensors

- PT1000 sensor element
- Lengths from 10 mm to 200 mm
- Single and double sensor options
- -196°C to +140°C depending on configuration and setup



Flex Temperature Sensors

- PT1000 sensor element
- Lengths of 300 mm and 500 mm
- -196°C to +150°C depending on configuration & setup



Thermocouple Sensors

- Thermocouple sensor element
- Lengths from 300mm to 1,000 mm
- Replaceable thermocouple
- –196°C to +400°C, depending on configuration and setup



Bowie Dick Sensors

- PT1000 and strain gauge sensor elements
- Electronic alternative to traditional Bowie-Dick testing
- 0°C to +140°C
- Additional sterilization cycle parameters calculated



CO_2 Temperature Sensors

- Thermal conductivity measurement principle
- Measuring Range 0 - 20%
- Minimum Sample Rate 1 sec.
- >800h Battery life



Conductivity Sensors

- Conductivity & PT1000 sensor elements
- Built-in temperature sensor
- 0 to 2000 µS/cm depending on configuration
- 0°C to +100°C



SemiFlex Temperature Sensors

- PT1000 sensor element
- Lengths from 100 mm to 1.000 mm
- Single, double, and high-temperature sensor options
- -196°C to +400°C depending on configuration & setup



Internal Temperature Sensors

- PT1000 sensor element
- -80°C to +150°C depending on configuration



SmartFlex Temperature Sensors

- PT1000 sensor element
- Lengths from 100 mm to 1,000 mm
- Single, double, rugged, or quad sensor options
- -196°C to +140°C depending on configuration and setup



Pressure/Vacuum Sensors

- Vacuum, 4 Bar, 6 Bar, 8 Bar, and temperature hybrid options
- 0.001 mBar to 8 Bar
- -60°C to +150°C depending on configuration



Relative Humidity Sensors

- Capacitance & PT1000 sensor elements
- Built-in temperature sensor
- 0% to 100% relative humidity
- 0°C to +90°C

Wired Validation System
E-Val® Pro Plus



Reliable Operation for Demanding GMP Environments

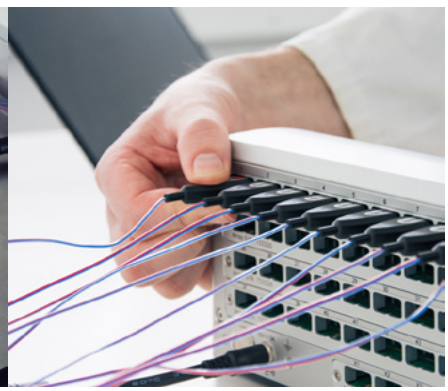
E-Val Pro® Plus delivers recise, live measurements using SMART USB thermocouples. Well-suited for large-scale or high-complexity systems such as autoclaves and tunnels, the system offers secure data handling and validation summary reports.

Accurate Measurement Across Extreme Conditions

E-Val Pro® Plus supports a broad range of thermocouples and specialty probes, enabling accurate easurements across extreme temperatures and other critical parameters.

Trusted Methods & Complete Data





- Real-time data view.
- Eliminates data gaps.
- Automated setup & clear pass/fail results.
- Calibrate and add calibration due date to your sensors.
- **Combine** both E-Val Pro® Plus and Ellab validation data loggers into one study.
- Purchase, rent, and lease options available.
- Full sensor traceability and replaceability.
- Wide range of sensors and parameters.
- **52** sensors per module
- **Link** up to three E-Val Pro® Plus', allowing up to 156 sensors in a single study.

E-Val® Pro Plus
Sensors & Parameters



STC-TF Thermocouples

- PTFE coating
- 3.2mm or 2.2mm electrode
- diameter
  -196°C to +200°C
- Type T



STC-KT Thermocouples

- Kapton coating
- Stainless steel electrode material
- 3 strand or 7 strand option
- 0°C to +260°C (+350°C short-term)
- Type T



STC-AC Thermocouples

- Stainless steel tip
- -70°C to +400°C
- Type T



Autoclave & Retort Thermocouple

- Stainless steel tip
- -50°C to +135°C depending on thermocouple
- Type T



SSU-CM Thermocouples

- Mineral insulated, metal sheeted electrode & cable material
- -196°C to +400°C
- Type T



Sensor Interface

- Equip any TrackSense Pro® sensor (see page 2)
- Temperature, pressure, relative humidity, CO2, vacuum, and conductivity measuring options



Open USB Terminal

- Fix your own thermocouples and connect to the E-Val Pro® Plus

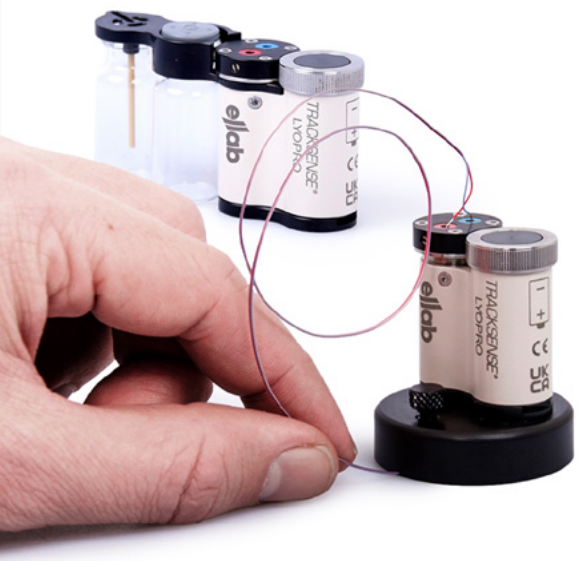


Specialized Data Loggers
Designed for Your Application



Electronic
Bowie-Dick Test

The Electronic Bowie-Dick sensor replaces traditional bowie dick and chemical indicator test packs with an objective, traceable solution that verifies steam penetration and sterilizer performance.



LyoPro®
Freeze-Drying Qualification

LyoPro® provides accurate in-vial temperature measurements and shelf mapping without disrupting the process – ideal for validating batch uniformity, shelf performance, and critical lyophilization phases.



Frigo UX Sky
Freezer Qualification

Frigo UX Sky is designed for reliable temperature measurements and live data within ultra-low freezers, removing the risk of having to repeat studies through real-time, actionable insights.

Validation Software

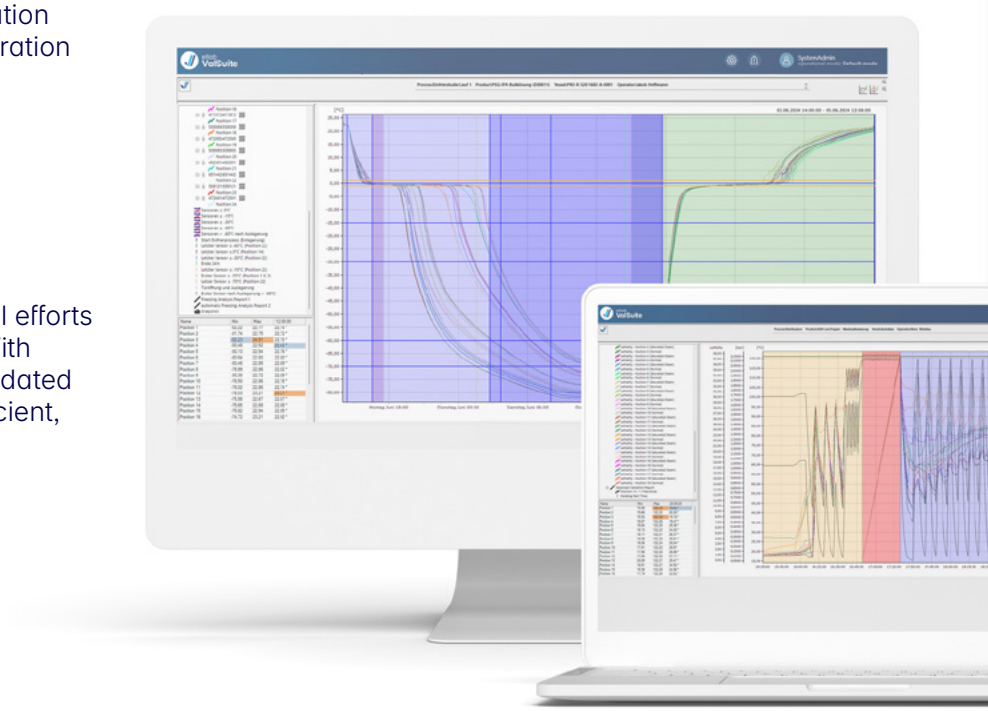
Centralized Control for All Validation Activities

ValSuite® unifies data from qualification studies in a secure, compliant platform. It ensures full traceability and consistent documentation across all thermal validation and calibration activities.

Streamlined Workflows & Reliable Reporting

Automated tools for study setup, data analysis, and reporting reduce manual efforts and accelerate qualification cycles. With strong integration capabilities and validated data handling, ValSuite® supports efficient, inspection-ready validation.

ellab ValSuite



Audit-Proven Validation Software

- FDA 21 CFR Part 11 and Annex 11 compliant.
- Validated data integrity.
- Automatic reporting with clear pass/fail.
- Standalone PC installation or full server/Citrix solution.
- Compatible with SCADA systems.
- In-built calibration capabilities.
- Windows authentication and security.
- Active Directory (AD) compatible.
- Reports designed to meet EN, FDX, ISO, and USP requirements.
- Kneat paperless validation

Service Agreements For Validation Equipment

Continuous Compliance Done Smoothly.

Our service agreements are designed to help you maintain a compliant state with minimal effort and disruption.

Always Audit-Ready

Continuous calibration and documentation.

Predictable Planning

A stable service setup that ensures a predictable workload and budgeting.

Long-Lasting Performance

Proactive service, updates, and prioritized handling.

Easy Operations

No repeated coordination or PO work.

Service Agreement Overview	Silver	Gold
Annual calibration	✓	✓
Expedited turnaround & added benefits	✓	✓
General discounts	✓	✓
Additional discounts	✓	✓
Free updates (within version numbers)	✓	✓
Free training sessions	✓	✓
Annual inspections & direct access to support specialists	✓	✓
3-year price guarantees	✓	✓
Extended product warranty w. express replacement		✓

Unlocks 24/7 SUPPORT

Mapping Services
Global Consistency By Local Experts

Understand & Control Your Critical Environments

Ensure uniform conditions and reliable performance across your critical environments. Our mapping services provide precise data to verify temperature distribution and identify risks before they impact compliance.





Confidence In Every Measurement & Process

We help you maintain control, reduce deviations, and ensure audit-ready documentation with minimal disruption to operations.

Our mapping capabilities include:

- Thermal mapping & distribution studies.
- Temperature-controlled storage mapping.
- Environmental & stability testing.
- Warehouse and ctu mapping.
- Protocol development & reporting.
- Data analysis and risk identification.
- Mapping of temperature, humidity, and more.



CQV Services
Commissioning, Qualification, & Validation

Ensuring Compliance Across Every Qualification Stage

From installation to performance qualification, we ensure your equipment and processes meet regulatory requirements from day one.

Get Up & Running Sooner With Reliable Compliance

Our structured CQV approach reduces delays, accelerates time to market, and ensures consistent compliance across facilities.

Our CQV services include:

- IQ, OQ, PQ execution.
- Process & equipment validation.
- Commissioning support.
- Validation protocol development.
- Validation summary reports.
- Global program management.



Consulting Services
Project Management, Engineering, & GMP Expertise

Expert Guidance Across Your GMP Landscape

Navigate complex regulatory environments with consulting and support tailored to your operations, projects, and processes.

Close Gaps. Improve Performance. Stay Compliant.

We help identify compliance risks, optimize workflows, and ensure efficient project execution with full regulatory alignment.



Our consulting services include:

- GMP consulting & compliance strategy.
- Project management for validation programs.
- Process engineering support.
- SOP development and review.
- Risk assessments & gap analysis.
- Managed validation services.


ellab
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TrackView Pro

Complete Continuous Monitoring



Complete Solutions. Complete Confidence.

Ensure critical parameters remain in specification with Ellab's continuous monitoring system.

Complete Compliance, Flexibility, & Partnership

Ellab's continuous monitoring solutions combine validated hardware and powerful software to deliver reliable, compliant oversight across life science environments – from storage and laboratories to production and cleanrooms.

Monitoring Software

Software that transforms raw data into valuable insight, actional alarms, and compliant records.

Monitoring Hardware

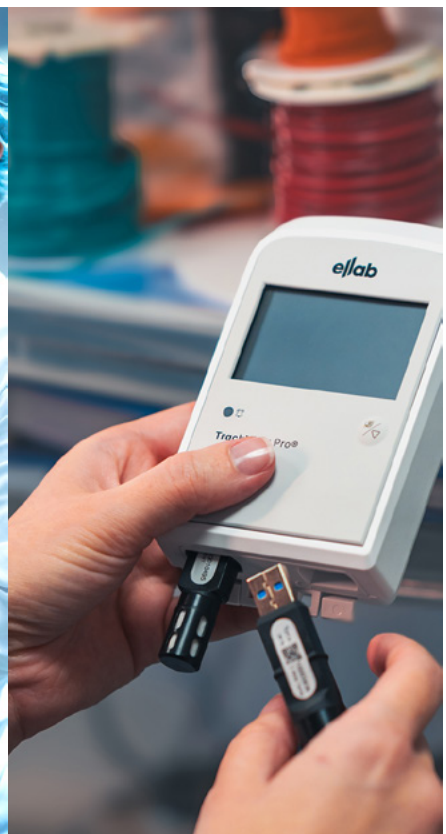
Purpose-built sensors and transmitters for reliable, accurate measurements in regulated environments.

Monitoring Services

Installation, maintenance, IQ/OQ/PQ, and calibration of your monitoring equipment.









Buy...

When the equipment is business-critical and used permanently.

- Full control and asset ownership
- Ideal for continuous, daily operation
- Lowest total cost over time

Rent...

When demand is temporary, unpredictable, or time-critical.

- Perfect for projects, peaks, or urgent timelines
- Calibrated, validated, ready-to-use equipment
- Batteries, repairs and calibrations included
- No upfront investment

Lease...

When you need stability without tying up capital.

- Long-term availability with budget control
- Option to upgrade over time
- OPEX friendly monthly costs

Continuous Monitoring Hardware
TrackView Pro®



Stable Data Collection At Scale

Aligned with FDA, Annex, ISPE, and GAMP 5 category 4 guidelines, TrackView Pro® combined with the EMSuite® software, are ideal for regulated laboratories, storage areas, and production spaces.

Reliable Monitoring For Regulated Environments

TrackView Pro® is Ellab's continuous monitoring hardware that captures accurate environmental data across life science facilities. Validated and designed for GMP environments, it enables reliable, ongoing measurement of critical parameters.



High-Compliance Monitoring

- Validated monitoring for regulated environments.
- Supports a wide range of measuring parameters.
- ALCOA+ with encrypted data and 2-way communication.
- Scalable from one laboratory to entire facilities around the world.
- Aligned with FDA, Annex, and GAMP 5 guidelines.
- Built for continuous data collection and reporting.

TrackView Pro®
Sensors & Parameters



Wired Temperature Sensors

- PT1000 sensor element
- Variety of lengths available
- Single and four-channel sensor options
- 3 diameter options: 2,5 mm, 3 mm, 4 mm
- -200°C to +200°C depending on configuration



Integrated Temperature Sensor

- PT1000 sensor element
- -20°C to +60°C depending on configuration & setup



Relative Humidity & Temperature Sensors

- 3 sensor options available
- Variety of lengths available
- RH range of 0-100% (non-condensing)



Differential Pressure Sensors

- ±100Pa
- ±1250Pa



CO_2 Sensor

- 0-20% CO_2



Analog Input Sensors

- 3-wire PT100 input
- 4-20mA
- 0-10V



Digital Input or Output Sensors

- Single digital input and output
- Dual digital input



Door Switch Sensors

- Light, medium, and heavy-duty variants



Airflow Sensor

- 0-20 m/s depending on sensor

Continuous Monitoring Software EMSuite®

Centralized Software For Monitoring, Documentation, And Compliance

EMSuite® is the software backbone that connects all TrackView® Pro hardware and transforms raw measurement data into compliant, inspection-ready documentation. It provides centralized visibility, alarm management, and secure data handling across your entire system.



Audit Ready Insights

- Data integrity and continuity meeting ALCOA+ requirements.
- Full GAMP 5 category 4 validation package with software and hardware IQ/OQs.
- Data saved in encrypted data base – no tampering possible.
- Password protected – user profile operated.
- Alarming options from local lights and sounds to mobile app, email, sms, and more.



Complete Integration

- Cloud, SaaS, or On-Premises software options with AD & SSO capabilities.
- Smooth integration with BMS, LIMS, and more.

Complete Functionality

- 21 CFR Part 11 and Annex 11 compliant.
- Easy to use Alarm & Notification Templates, with escalation.
- Soft PLC functionality.
- 24/7 Display View.
- Automatic hardware discovery.

Service Agreements
For Monitoring Equipment

Continuous Monitoring. Continuous Operations.

Our service agreements are designed to help you maintain a compliant state and clear overview of your critical assets with minimal effort and disruption.

24/7 Support Option

Fast, reliable support when you need it with quick resolution of issues.

Confident System Use

Ongoing training to keep your team up to speed and confident in system use.

Always Up to Date

Stay compliant and secure with continuous software and documentation updates.

Issues Resolved Faster

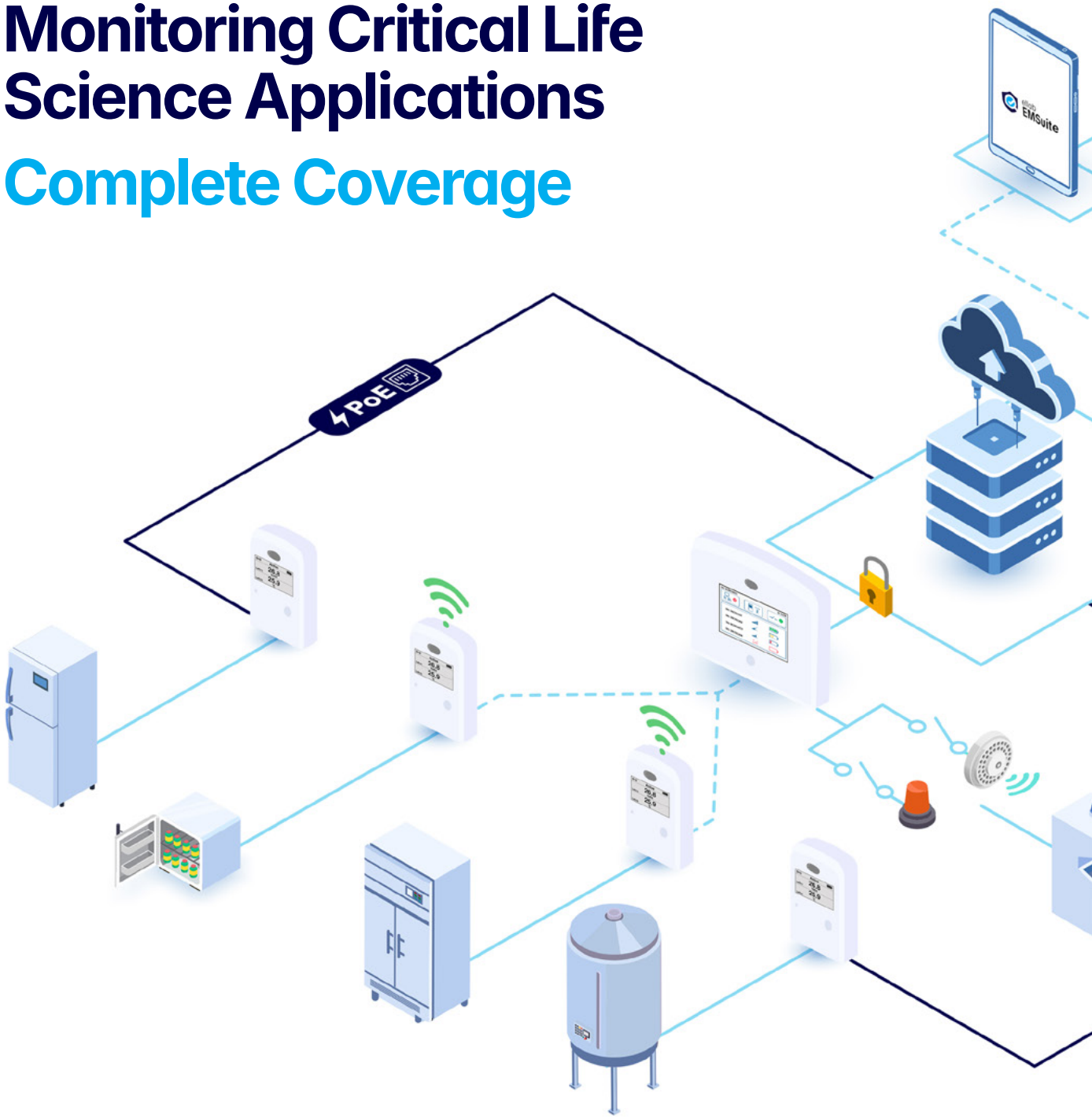
Remote access enables rapid troubleshooting and resolution.

Service Agreement Overview	Essential	Compliant	Premium
Software updates (up to 4 per year)	✓	✓	
Ellab performing remote updates (up to 4 per year)	✓	✓	
Basic software support (during business hours)	✓	✓	
Basic customer training (2 days per year)	✓	✓	
Updated validation documents (up to 4 per year)		✓	
Remote software IQ execution with updates		✓	
Mobile app access	✓	✓	

Unlocks 24/7 SUPPORT

Monitoring Critical Life Science Applications

Complete Coverage





Area		Common Parameters				
		Temp	RH	Airflow	Door	Other
Laboratory	Freezers: LN2 to -20C	✓	–	–	✓	✓ Level
	Refrigerators	✓	–	–	✓	–
	Incubators	✓	✓	–	✓	✓ Co_2
	Stability Chambers	✓	✓	–	✓	✓ Light
	Ovens	✓	–	–	✓	–
Clean Rooms		✓	✓	✓	✓	✓ Particles ✓ Pressure
Vivarium & Research Rooms		✓	✓	✓	✓	✓ Light
Packaging		✓	✓	–	✓	–
Cold / Freezer Room Storage		✓	✓	–	✓	–


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Calibration Solutions



Accuracy You Can Prove. Confidence You Can Defend.

Calibration services, hardware, and asset management ensure every measurement you rely on is accurate, traceable, and compliant.

Continuous Compliance Through Calibrations

Ellab's calibration solutions combine precision equipment with accredited labs and on-site services, ensuring measurement accuracy across life science environments.

Calibration Hardware

High-precision reference and calibration equipment supports reliable calibration and verification.

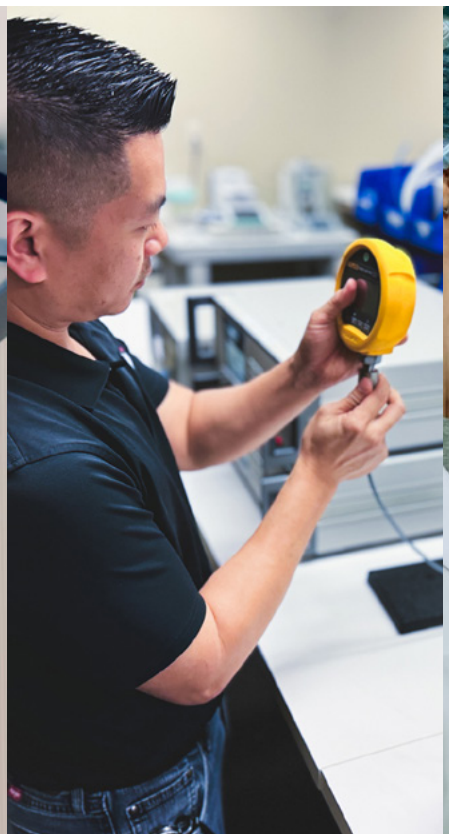
Calibration Services

In-lab or on-site calibration services ensure ongoing compliance without operational disruption.

Asset Compliance Solutions

Single-source asset compliance and management for life science companies.









Traceable & Accredited Laboratory Calibrations

- Data Loggers
- Validation Systems
- Monitoring Systems
- Third-party Systems & Equipment

On-site Equipment Calibrations

- CTUs (Fridge, Freezer, Environmental Chamber)
- Centrifuges
- Incubators
- Autoclaves
- Balances
- Monitoring Systems
- Process Control Equipment (Flow Meters, RTDs, Pressure Transmitters)

Calibration Equipment

Baths, Dry Blocks, & Reference Standards

Temperature Calibration Equipment For Accurate, Traceable Results

Ellab's calibration equipment ensures accurate temperature measurements for critical environments, equipment, and processes:



Liquid Baths

Support high-accuracy laboratory calibration.



Dry Blocks

Enable efficient on-site and table-top verification and calibration.



Temperature Standard

Provides a reliable reference instrument.

Together, they ensure reliable, repeatable calibration aligned with GMP requirements.

Ellab Calibration Equipment

- Calibration baths for high-accuracy laboratory calibration.
- Portable dry blocks for efficient on-site calibration.
- Ellab temperature standard (ETS) for traceable reference measurements.
- Designed for GMP and regulated environments.
- Documented and ready for compliant use.



On-site Calibration Services

For processing, storage, & research equipment

Calibration Where You Need It Most

Maintain accuracy without interrupting operations. Ellab's on-site calibration services are performed directly in your production, storage, and laboratory environments, ensuring your equipment remains accurate and compliant in real operating conditions.

Minimize Downtime. Maximize Confidence

By calibrating equipment in place, we reduce operational disruption while ensuring accurate, traceable results that support reliable performance.

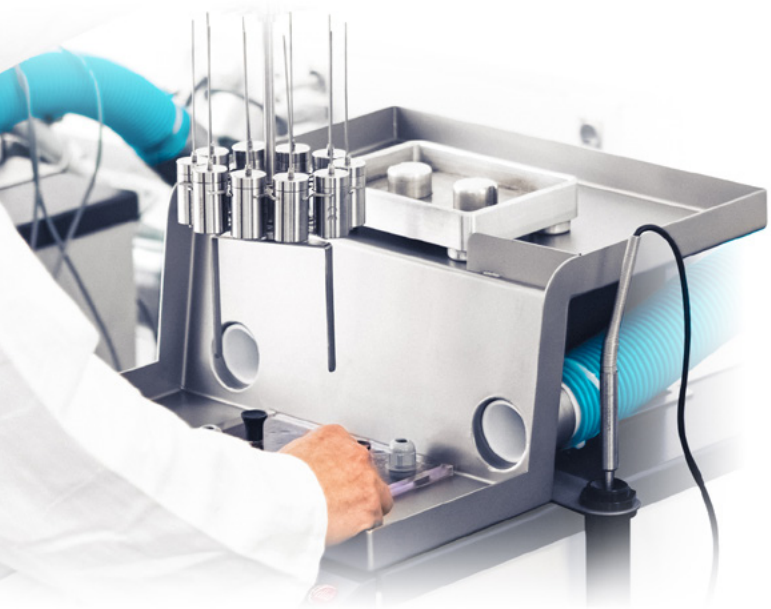
Our On-Site Calibration Services Include:

- Calibration in production, storage, and lab environments.
- Verification of critical measurement instruments.
- ISO/IEC 17025-traceable results and documentation.
- Calibration aligned with real operating conditions.
- Minimal disruption to daily operations.
- Inspection-ready calibration records.



Laboratory Calibration Services

For Ellab & Third-Party Measuring Equipment



Precision Calibration In Controlled Environments

Our global laboratories deliver high-accuracy calibration for a wide range of instruments and parameters. From factory calibration of Ellab equipment to third-party devices, we ensure reliable, traceable results every time.

High Accuracy. Full Traceability. Accredited Results

With controlled conditions and accredited capabilities, our lab services support the highest levels of compliance and measurement confidence.



Our Lab Calibration Services Include:

- Factory calibration of Ellab equipment and sensors.
- Calibration of third-party instruments and devices.
- ISO/IEC 17025-accredited calibration services.
- High-precision calibration in controlled environments.
- Traceable documentation and certification.
- Calibration of a wide range of parameters..

Asset Compliance Solutions (ACS)

Asset Management, Compliance, & Relocation



End-To-End Control of Your Asset Life Cycle

Simplify asset management and ensure compliance across your entire life cycle. From daily lab operations to full-scale relocations, ACS deliver integrated support through one trusted partner.

Less Complexity. More Control. Full Compliance

Reduce vendor complexity, improve efficiency, and maintain audit readiness with full visibility into assets and performance.



Our Asset Compliance Solutions Include:

- Laboratory operations optimization & SOP alignment.
- Asset inventory, tracking, and life cycle management.
- Lab relocation planning and execution.
- Vendor management.
- Calibration, maintenance, and technical services.

Global Compliance Solutions for Life Science Manufacturers

With more than 75 years of experience, Ellab continues helping life science organizations keep critically processes compliant, safe, and audit ready.

Our portfolio spans thermal validation, continuous monitoring, and calibration – three integrated pillars that support quality, safety, and regulatory alignment across the full production life cycle.

One Partner for Integrated Compliance Needs

With accredited labs, expert consultants, on-site technicians, and a global presence, we combine equipment, services, and technical support into a unified compliance ecosystem. Whether scaling operations, strengthening data integrity, or reducing downtime, Ellab provides the confidence, efficiency, and partnership needed to maintain reliable, validated processes.

Get a free consultation

www.ellab.com