Calibration service - Central and Eastern Europe

Consultation – Calibration – Test Device Management

DAkkS calibration in the Limburg laboratory or on site
UKAS calibration

eurotherm.de

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by **Schneider** Electric

DAkkS calibration (Limburg calibration lab) accreditation no. D-K 18632
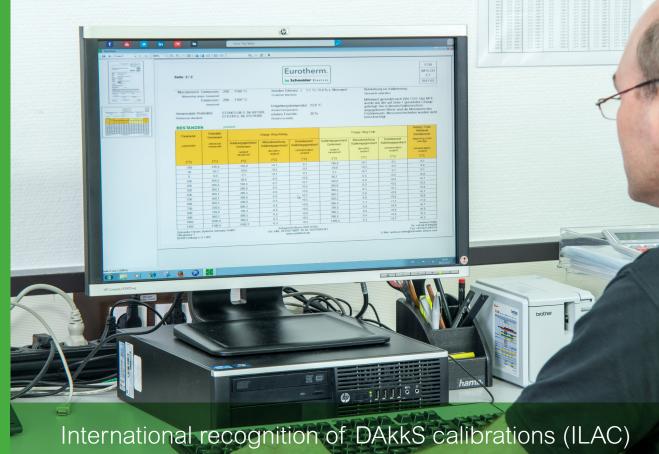
- Temperature (individual components and entire measurement chains)

UKAS calibration (qualified service) accreditation no. 0778

- Temperature (individual components and entire measurement chains)
- Direct current
- Direct voltage
- Resistance

International recognition of DAkkS calibrations (ILAC)

The German calibration service signed the multilateral agreement of the European co-operation for Accreditation (EA) and the International Laboratory Accreditation Cooperation (ILAC) on the mutual recognition of calibration certificates. For the other signatories within and outside Europe, please refer to the webpages of EA (www.european-accreditation.org) and ILAC (www.ilac.org).

The national accreditation bodies for laboratories worldwide formed the International Laboratory Accreditation Cooperation (ILAC) with the main goal to establish a network of agreements for the mutual recognition of calibration certificates and test reports of accredited laboratories. This network is intended to promote in particular the acceptance of these certificates by member countries of the World Trade Organisation (WTO) within the scope of the agreement on the reduction of technical barriers to trade from the year 1995. In this way, the ILAC supports the work of the corresponding regional organisations, e. g. EA and APLAC (Asia Pacific Laboratory Accreditation Cooperation). The DAkkS is a member of the ILAC and is among the signatories of the "ILAC Mutual Recognition Arrangement" (MRA) on the mutual recognition of calibration certificates and test reports.

Further information at: www.european-accreditation.org   www.ilac.org

Why calibration?

QA management systems and regulations such as AMS2750, CQI-9, ISO 9000 et seq., QS9000, CFR, GMP, HACCP, etc. demand the management of testing devices. Eurotherm calibration services increases confidence in measurement results:

• regular comparison to national standards help ensure your measurements are correct

• we offer traceable certificates based on established calibration regulations.

Calibration using reference measuring instruments (calibrators) which have been tested according to national standards aids process safety in production systems.

Calibration helps to detect measuring errors and non-compliant devices and can reveal the reasons for system accuracy problems. You will achieve more confidence in a calibrated process. A calibrated process helps you to comply to all required standards and product requirments.

We provide you with a comprehensive calibration service.

Increase:

• Process Optimisation
• Process Effectiveness
• Audit Traceability
• Confidence in displayed values
• Documentation according to established standards/ specifications/requirements

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Our range of services

In our Limburg laboratory

Measurement ranges	Unit	ISO factory certificate (physical)	ISO batch certificate (physical)	DAkkS certificate (physical)	ISO factory certificate (simulation/indication)	DAkkS certificate (simulation/indication)	AMS2750 certificate of conf. (simulation/indication)	CQI 9 certificate of conf. (simulation/indication)
-196 to 1500	°C	✓	✓					
-50 to 1500	°C			✓				
-200 to 1400	°C				✓	✓		
-50 to 1100	°C			✓				
-200 to 800 (RTD)	°C	✓			✓	✓		
-100 to 400 (RTD)	°C						✓	✓
-50 to 400 (RTD)	°C	✓		✓				
-200 to 1820	°C				✓		✓	✓
0 to 20000	mV				✓		✓	✓
0 to 25	mA				✓		✓	✓
5 to 95	%rF	✓						
1 to 2000	Ohm				✓		✓	✓
0 to 24	Time				✓		✓	✓
-1 to 20	bar	✓			✓		✓	✓
0 to 20	bar abs	✓			✓			

On site

Measurement ranges	Unit	ISO factory certificate (physical)	ISO batch certificate (physical)	DAkkS certificate (physical)	ISO factory certificate (simulation/indication)	DAkkS certificate (simulation/indication)	AMS2750 certificate of conf. (simulation/indication)	CQI 9 certificate of conf. (simulation/indication)
-196 to 1500	°C							
-50 to 1500	°C							
-200 to 1400	°C				✓	✓		
-50 to 1100	°C	✓	✓	✓				
-200 to 800 (RTD)	°C				✓	✓		
-100 to 400 (RTD)	°C						✓	✓
-50 to 400 (RTD)	°C	✓		✓				
-200 to 1820	°C				✓		✓	✓
0 to 20000	mV				✓		✓	✓
0 to 25	mA				✓		✓	✓
5 to 95	%rF	✓						
1 to 2000	Ohm				✓		✓	✓
0 to 24	Time						✓	✓
-1 to 20	bar	✓			✓		✓	✓
0 to 20	bar abs	✓			✓			

Life Is On | Eurotherm by Schneider Electric

We make the difference

Eurotherm has been an expert in heat treatment for more than 50 years. Our specialists have the knowledge and experience to understand your process in the required depth.

"If you think compliance is expensive try non-compliance"

Paul Mc Nulty, former U. S. Deputy Attorney General

Our benefits

- AMS2750-compliant
- CQI-9-compliant
- High accuracy
- Full-range supplier: from sensors to systems
- Short lead times
- High-temperature sensor calibration

In particular in regulated applications, e. g. in the aerospace or automotive industry, the accuracy of individual components is decisive for a successful process. A flawed batch due to a process deviation can mean significant financial losses.

We also provide support during audits so that you do not have to handle them on your own.

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EOS Advisor – Manage compliance and calibration requirements more efficiently

Are you relying on pen and paper to manage compliance? Do you worry that you won't be able to find records during an audit?

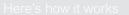**Is it expensive and time-consuming to maintain?**

We have great news: That's all about to change.

Seamlessly transform your equipment data into useful, actionable, and auditable information with our revolutionary software as a service, called Eurotherm™ Online Services (EOS) by Schneider Electric™.

EOS Advisor allows you to manage your equipment and staff more efficiently with one integrated system that meets all your compliance requirements. And the EOS tablet application for calibration (eCAT™) improves the consistency of your calibration process.

- Check compliance status overview anywhere, at any time
- Review historical and current status for future planning
- Get instant access to certificates at instrument using QR code

- Plan, schedule, and deploy calibration automatically
- Configure workflows for capture, validation, correction, and approval

- Eradicate error-prone paper and Microsoft® Excel®-based processes
- eCAT tablet App aids repeatable, accurate, calibration to industry standards (ISO17025, AMS2750E, and GAMP)

- Get real-time status reports across multiple sites
- View data and retrieve documents by context — plant, site, equipment, instrument, channel
- Avoid unplanned downtime searching for compliance documents with instant status

Here's how it works

With EOS, an instrument test produces a certificate and QR label.

Just scan the label for an instant view. Why not try it yourself?

Check all scheduled activities easily on the planning page.

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eCAT™ calibration system

Viewing calibration certificates on your smartphone?

The Eurotherm eCAT calibration system makes it possible!

Choose your preferred QR reader. We recommend "QR-Reader".

Scan the QR code on the calibration label.

EOS displays: "Enter the first 4 digits of the serial number of the label and confirm."

EOS will then display your calibration certificate on your smartphone or tablet.

Try it yourself: Scan the label above and enter **PL12** .

Calibration certificates at a glance?

3 simple steps

1 Support with calibration planning using EOS Advisor

2 Eurotherm eCAT assigns a QR code to all documents generated via eCAT

3 You would like to check the calibration status? Scan the QR code & type passcode

- Scan the QR code and view the complete process:

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Eurotherm calibration

This is what we can do for you!

- Calibration of devices in our calibration lab and at the customer's site
- Calibration of Eurotherm and third party devices
- The calibration covers a comprehensive range of parameters
- Calibration of electrical devices by signal connection:

- DC voltage, current, resistance, temperature simulation
- Control loop calibration of the system by: pressure simulation, temperature simulation, humidity simulation

Call us

Response service

Service which provides the solutions you need:

Calibration service:
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HA033113ENG - Issue 1