

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the calibration laboratory

Fluke Process Instruments GmbH
Blankenburger Straße 135, 13127 Berlin

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out calibrations in the following fields:

- Thermodynamic quantities**
- Temperature quantities**
 - Radiation thermometers
 - Temperature indicators and simulators

The accreditation certificate shall only apply in connection with the notice of accreditation of 29.11.2021 with the accreditation number D-K-18085-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-K-18085-01-00**

Berlin,
29.11.2021

Dr. Heike Manke
Head of Division

Translation issued:
29.11.2021



Head of Division

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>

This document is a translation. The definitive version is the original German accreditation certificate.
See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-18085-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 29.11.2021

Date of issue 29.11.2021

Holder of certificate:

Fluke Process Instruments GmbH
Blankenburger Straße 135, 13127 Berlin

Calibration in the fields:

Thermodynamic quantities

Temperature quantities

- Radiation thermometers
- Temperature indicators and simulators

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex reflects the status as indicated by the date of issue.

The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Temperature Radiation thermometers and radiation sources	-20 °C to 100 °C	VDI/VDE 3511 Part 4.4 July 2005 Calibration scheme IIa	0.30 K	Calibration against a cavity radiator using transfer standard radiation thermometers
	> 100 °C to 200 °C		0.40 K	
	> 200 °C to 300 °C		0.60 K	
	> 300 °C to 400 °C		0.80 K	
	> 400 °C to 500 °C		0.90 K	
	> 500 °C to 600 °C		1.3 K	
	> 600 °C to 700 °C		1.3 K	
	> 700 °C to 800 °C		1.4 K	
	> 800 °C to 900 °C		1.5 K	
	> 900 °C to 1100 °C		1.5 K	
	> 1100 °C to 1300 °C		1.6 K	
	> 1300 °C to 1500 °C		1.7 K	
	> 1500 °C to 1700 °C		4.1 K	
	> 1700 °C to 1900 °C		4.5 K	
	> 1900 °C to 2100 °C		4.9 K	
	> 2100 °C to 2300 °C		5.4 K	
> 2300 °C to 2500 °C	5.8 K			
> 2500 °C to 2700 °C	6.3 K			
Temperature indicators for thermocouples	-180 °C to 1750 °C	DKD-R 5-5:2018	0.30 K	Electrical simulation of the sensor signal

Abbreviations used:

- DKD-R Calibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technischen Bundesanstalt
- VDE Association for Electrical, Electronic & Information Technologies
- VDI Association of German Engineers

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.