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als Kalibrierlaboratorium im / as calibration laboratory in the

Deutschen Kalibrierdienst

DKD



Deutsche
Akkreditierungsstelle
D-K-20536-01-00

Kalibrierschein

Calibration certificate

Kalibrierzeichen

Calibration mark

D 9999
D-K- 20536-01-00
2018-08

Gegenstand
Object **electrical pressure gauge**

Hersteller
Manufacturer **BD|SENSORS GmbH**

Typ
Type **DM01**

Fabrikat/Serien-Nr.
Serial number **11223344**

Auftraggeber
Customer **Joe Blow**

Auftragsnummer
Order No. **99999999**

Anzahl der Seiten des Kalibrierscheines
Number of pages of the certificate **4**

Datum der Kalibrierung
Date of calibration **07.08.2018**

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).

Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).

The DAkkS is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates.

The user is obliged to have the object recalibrated at appropriate intervals.

Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung sowohl der Deutschen Akkreditierungsstelle als auch des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift haben keine Gültigkeit.

This calibration certificate may not be reproduced other than in full except with the permission of both the Deutsche Akkreditierungsstelle GmbH and the issuing laboratory. Calibration certificates without signature are not valid.

Datum
Date **7. August 2018**

7. August 2018

Leiter des Kalibrierlaboratoriums
Head of the calibration laboratory

M. Schmidt
Matthias Schmidt

Bearbeiter
Person in charge

A. Hentschel
Andreas Hentschel

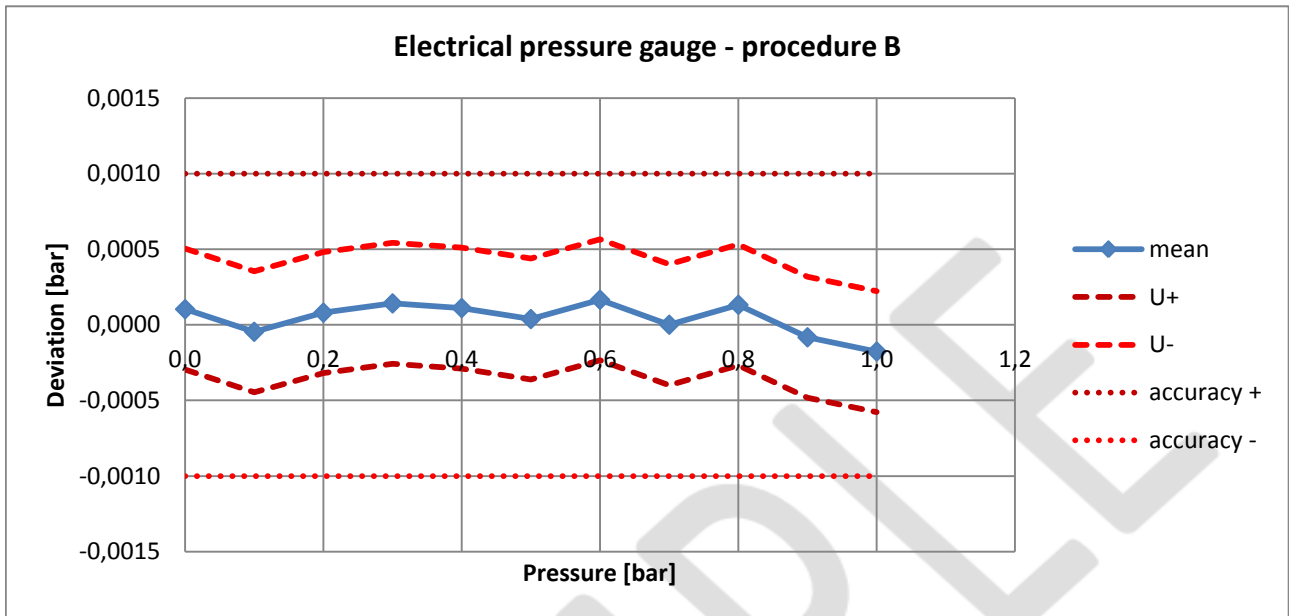
1. Calibration item	electrical pressure gauge	display apparatus
Manufacturer	BD SENSORS GmbH	BD SENSORS GmbH
Type	DM01	DM01-A21
Serial number	11223344	43214321
Accuracy stated by the manufacturer	0,1 %FSO	
Scale range	0 bar to 1 bar	
Resolution	0,0001 bar	
2. Working standard	Electronic pressure reference	
Model	PPC4-ui A200Kp/BG15Kp	
Calibration mark	6013-KL-C0262-18	
Due date	03.04.2019	
3. Calibration procedure	DKD-R 6-1 (03/2014, procedure B)	
4. Place of calibration	95199 Thierstein	
Gravity	(9,809413 ± 0,000001) m/s ²	
5. Conditions of calibration		
Pressure medium	nitrogen	
Position during calibration	vertical	
Accuracy of the height measurement	2 mm	
Reference height	Sealing surface	
6. Ambient conditions		
Temperature	(23,0 ± 1) °C	
Atmospheric pressure	(954 ± 1) mbar	
Rel. humidity	(35 ± 5) %	

The legal entity is bar resp. Pa, whereby 1 bar = 1000 mbar = 100 kPa = 14,5038 psi = 750,0627 mmHg

7. Measurement results at the time of measurement

Pressure at the height of the reference plane of the calibration item	M1 up	M2 down	M3 up	M4 down
bar	bar	bar	bar	bar
0,0000	0,0000	0,0001	0,0001	0,0002
0,1000	0,0998	0,1000	0,1000	
0,2000	0,2000	0,2002	0,2001	
0,3000	0,3000	0,3002	0,3002	
0,4000	0,3999	0,4003	0,4002	
0,5000	0,5000	0,5000	0,5001	
0,6000	0,6000	0,6003	0,6003	
0,7000	0,7000	0,6999	0,7001	
0,8000	0,8000	0,8001	0,8003	
0,9000	0,8998	0,8999	0,9001	
1,0000	1,0000	1,0000	0,9995	

Pressure at the height of the reference plane of the calibration item	Mean value of the display		Deviation		Expanded Uncertainty	
	up	down	up	down	up	down
in bar	in bar	in bar	in bar	in bar	in bar	in bar
0,0000	0,0001	0,0002	0,0001	0,0002	0,00040	0,00040
0,1000	0,0999	0,1000	-0,0001	0,0000	0,00040	0,00040
0,2000	0,2000	0,2002	0,0000	0,0002	0,00040	0,00040
0,3000	0,3001	0,3002	0,0001	0,0002	0,00040	0,00040
0,4000	0,4000	0,4003	0,0000	0,0003	0,00040	0,00040
0,5000	0,5000	0,5000	0,0000	0,0000	0,00040	0,00040
0,6000	0,6001	0,6003	0,0001	0,0003	0,00040	0,00040
0,7000	0,7001	0,6999	0,0001	-0,0001	0,00040	0,00040
0,8000	0,8001	0,8001	0,0001	0,0001	0,00040	0,00040
0,9000	0,8999	0,8999	-0,0001	-0,0001	0,00040	0,00040
1,0000	0,9997	1,0000	-0,0003	0,0000	0,00040	0,00040



7. Measurement uncertainty

After correcting the display of the device with the measurement deviation (see table), the amount of the measurement uncertainty stated in the table corresponds to U (see

The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. It has been determined in accordance with DAkks-DKD-3. The value of the measurand lies within the assigned range of values with a probability of 95%.

The DAkks is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates. The other signatories in and outside Europe can be seen on the Websites of EA (www.european-accreditation.org) and ILAC (www.ilac.org).

8. Notice

The calibrated object was not adjusted before calibration

The DAkks calibration will be invalidated if changes are made to the instrument or any other manipulation is performed that may result in the loss of the preset parameters or the safety marks are removed or damaged.