

1. Kalibriergegenstand / Calibration object

16 Channel System DEWETRON PUREC-50/200, S/N: CC220102

2. Kalibrierverfahren / Calibration procedure

Die Kalibrierung erfolgt durch Vergleich der durch die Kalibrierstelle / Normale dargestellten Werte mit den Ausgangsgrößen am Kalibriergegenstand beziehungsweise den am Kalibriergegenstand angezeigten Werten.
The calibration is made by comparing the readings from the laboratory / standards to the output of the calibration object respectively the values displayed on the calibration object.

Prüfroutine / *Calibration procedure*: PUREC-xxx-System_Akkred, Rev. 2.00

3. Messergebnisse / Measurement results

Die Kalibrierung im Rahmen der Akkreditierung umfasst die Messgrößen Gleichspannung, Wechselspannung, Gleichstrom, Wechselstrom und Gleichstromwiderstand.

Die Messergebnisse beziehen sich ausschließlich auf diesen Kalibriergegenstand zum Zeitpunkt der Kalibrierung.

The calibration scope of the accreditation contains the quantities direct voltage, alternating voltage, direct current, alternating current and direct current resistance.

The measurement results are exclusively linked to this calibration object at the time of calibration.

4. Messunsicherheit / Measurement uncertainty

Angegeben ist die erweiterte Messunsicherheit, die sich aus der Standardmessunsicherheit durch Multiplikation mit dem Erweiterungsfaktor $k=2$ ergibt. Sie wurde gemäß EA-4/02 ermittelt. Der Wert der Messgröße liegt im Regelfall mit einer Wahrscheinlichkeit von annähernd 95% im zugeordneten Werteintervall.

Ein Anteil für die Langzeitstabilität des Kalibriergegenstandes ist nicht enthalten.

The stated extended measurement uncertainty is derived from the standard uncertainty of measurement multiplied by the coverage factor $k=2$. It has been determined according to EA-4/02. The measured quantity is inside the corresponding value interval with a probability of approximately 95%.

A factor for the long time stability of the calibration object is not taken into account.

5. Umgebungsbedingungen / environmental conditions

Temperatur / *Temperature*: 22,9 °C

Rel. Luftfeuchte / *Rel. humidity*: 34,6 % r.H.

Kalibrierort / *Place of calibration*: DEWETRON GmbH, Parkring 4, 8074 Grambach, Austria

6. Auftragsnummer / Reference Number

7. Status / Status

PASS ()

AS-FOUND: Eingangskalibration / *Incoming calibration*

AS-LEFT: Ausgangskalibration / *Outgoing calibration*

FOUND/LEFT: Eingangskalibration erfüllt Herstellerspezifikation / *Incoming calibration according to manufacturer specifications*

PASS: Messergebnis liegt innerhalb der Herstellerspezifikationen (ohne Berücksichtigung der Messunsicherheiten) / *Measurement result is within manufacturer's specifications (without taking into account the measurement uncertainties)*

FAIL: Das Messergebnis liegt nicht innerhalb der Herstellerspezifikationen (ohne Berücksichtigung der Messunsicherheiten) / *Measurement result is out of manufacturer's specifications (without taking into account the measurement uncertainties)*

8. Verwendete Fußnoten / Used foot notes:

(1) Zusätzliche Messwerte außerhalb des akkreditierten Bereiches, es kann keine Konformitätsaussage getroffen werden.

(1) Additional measured values outside the accredited scope, a conformity statement cannot be made.

9. Kommentare / Comments

Test freigabe

Für die Festlegung und Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

The user is responsible for the definition and the compliance to a reasonable period for repeating the calibration.



DEWETRON GmbH
Parking 4
8074 Grambach
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10.12.2025

10. Verwendete Normale / Standards used

<u>Asset</u>	<u>Description</u>	<u>Serial Number</u>	<u>Certificate No.</u>	<u>Cal Date</u>	<u>Due Date</u>
5520A	5520A CALIBRATOR	8479009	40082025	8-Aug-2025	7-Aug-2026
Keysight 3458A 07	3458A Multimeter	MY59352994	53072025	7-Jul-2025	7-Jul-2026



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11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Current Temperature of DMM and Calibrator								
DMM:	38.1°C							
Calibrator:	26.14°C							
Kalibrierverfahren / calibration method:								
CAL-KV-01_Gleichspannung_v1.0_2024-07-04.xlsx-02								
CAL-KV-01_Gleichspannung_v1.0_2024-07-04.xlsx-05								
CAL-KV-02_Wechselspannung_v1.0_2024-07-04.xlsx-04C								
API Version : 7.7.1.8228								
Card Type : PUREC-200-CAN								
Serial Number : CC220102								
Firmware Version: 1904								
Model version : 1.00								
XML version : SVN 1656915922								
Voltage Input Calibration								
Accuracy:								
DC to 1kHz : 0.02% of reading +/-0.01% of Range +/-20uV								
>1kHz to 5kHz : 0.5% of reading +/-0.01% of Range +/-20uV								
>5kHz to 10kHz : 1% of reading +/-0.01% of Range +/-20uV								
Samplerate: 200kS/s								
Resolution: 24bit								
Filter: Off								
CH 1								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500740 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000740 V	52.1%	Pass
0 V DC	0.000000 V	0.000013 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000013 V	2.5%	Pass
-4.5 V DC	-4.500000 V	-4.500650 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000650 V	45.8%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500210 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000210 V	17.2%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500550 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000550 V	45.1%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501680 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001680 V	9.32%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505213 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005213 V	14.7%	Pass
10 V Range								
9 V DC	9.000000 V	9.001110 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001110 V	39.4%	Pass
5 V DC	5.000000 V	5.000680 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000680 V	33.7%	Pass
0 V DC	0.000000 V	0.000006 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000006 V	0.545%	Pass
-5 V DC	-5.000000 V	-5.000580 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000580 V	28.7%	Pass
-9 V DC	-9.000000 V	-9.001020 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001020 V	36.2%	Pass
7 V @ 53 Hz	7.000000 V	7.000133 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000133 V	5.51%	Pass
7 V @ 1000 Hz	7.000000 V	7.000713 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000713 V	29.5%	Pass
7 V @ 5000 Hz	7.000000 V	7.002907 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002907 V	8.07%	Pass
7 V @ 10000 Hz	7.000000 V	7.009787 V	6.928980 V	7.071020 V	1.50 e-03 V	0,009787 V	13.8%	Pass
CH 2								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500770 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000770 V	54.2%	Pass
0 V DC	0.000000 V	0.000022 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000022 V	4.21%	Pass
-4.5 V DC	-4.500000 V	-4.500670 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000670 V	47.2%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500370 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000370 V	30.3%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500513 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000513 V	42.1%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501507 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001507 V	8.36%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505050 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005050 V	14.2%	Pass
10 V Range								
9 V DC	9.000000 V	9.001240 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001240 V	44%	Pass
5 V DC	5.000000 V	5.000750 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000750 V	37.1%	Pass
0 V DC	0.000000 V	0.000016 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000016 V	1.59%	Pass
-5 V DC	-5.000000 V	-5.000640 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000640 V	31.7%	Pass
-9 V DC	-9.000000 V	-9.001120 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001120 V	39.7%	Pass
7 V @ 53 Hz	7.000000 V	7.000270 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000270 V	11.2%	Pass
7 V @ 1000 Hz	7.000000 V	7.000840 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000840 V	34.7%	Pass
7 V @ 5000 Hz	7.000000 V	7.002750 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002750 V	7.63%	Pass
7 V @ 10000 Hz	7.000000 V	7.009420 V	6.928980 V	7.071020 V	1.50 e-03 V	0,009420 V	13.3%	Pass
CH 3								
#####								
5 V Range								



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11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
4.5 V DC	4.500000 V	4.500777 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000777 V	54.7%	Pass
0 V DC	0.000000 V	0.000003 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000003 V	0.571%	Pass
-4.5 V DC	-4.500000 V	-4.500720 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000720 V	50.7%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500587 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000587 V	48.1%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500643 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000643 V	52.7%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501700 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001700 V	9.43%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505480 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005480 V	15.4%	Pass
10 V Range								
9 V DC	9.000000 V	9.001220 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001220 V	43.3%	Pass
5 V DC	5.000000 V	5.000730 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000730 V	36.1%	Pass
0 V DC	0.000000 V	-0.000001 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000001 V	0.0863%	Pass
-5 V DC	-5.000000 V	-5.000643 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000643 V	31.8%	Pass
-9 V DC	-9.000000 V	-9.001110 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001110 V	39.4%	Pass
7 V @ 53 Hz	7.000000 V	7.001000 V	6.997580 V	7.002420 V	920.00 e-06 V	0,001000 V	41.3%	Pass
7 V @ 1000 Hz	7.000000 V	7.000810 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000810 V	33.5%	Pass
7 V @ 5000 Hz	7.000000 V	7.003040 V	6.963980 V	7.036020 V	1.50 e-03 V	0,003040 V	8.44%	Pass
7 V @ 10000 Hz	7.000000 V	7.010280 V	6.928980 V	7.071020 V	1.50 e-03 V	0,010280 V	14.5%	Pass
CH 4								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500770 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000770 V	54.2%	Pass
0 V DC	0.000000 V	0.000001 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000001 V	0.188%	Pass
-4.5 V DC	-4.500000 V	-4.500720 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000720 V	50.7%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500560 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000560 V	45.9%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500550 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000550 V	45.1%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501670 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001670 V	9.27%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505303 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005303 V	14.9%	Pass
10 V Range								
9 V DC	9.000000 V	9.001170 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001170 V	41.5%	Pass
5 V DC	5.000000 V	5.000710 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000710 V	35.1%	Pass
0 V DC	0.000000 V	0.000003 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000003 V	0.326%	Pass
-5 V DC	-5.000000 V	-5.000630 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000630 V	31.2%	Pass
-9 V DC	-9.000000 V	-9.001090 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001090 V	38.7%	Pass
7 V @ 53 Hz	7.000000 V	7.000580 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000580 V	24%	Pass
7 V @ 1000 Hz	7.000000 V	7.000737 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000737 V	30.4%	Pass
7 V @ 5000 Hz	7.000000 V	7.002810 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002810 V	7.8%	Pass
7 V @ 10000 Hz	7.000000 V	7.009883 V	6.928980 V	7.071020 V	1.50 e-03 V	0,009883 V	13.9%	Pass
CH 5								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500790 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000790 V	55.6%	Pass
0 V DC	0.000000 V	0.000003 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000003 V	0.668%	Pass
-4.5 V DC	-4.500000 V	-4.500723 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000723 V	50.9%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500550 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000550 V	45.1%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500607 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000607 V	49.7%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501590 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001590 V	8.82%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504570 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004570 V	12.9%	Pass
10 V Range								
9 V DC	9.000000 V	9.001170 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001170 V	41.5%	Pass
5 V DC	5.000000 V	5.000710 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000710 V	35.1%	Pass
0 V DC	0.000000 V	0.000002 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000002 V	0.212%	Pass
-5 V DC	-5.000000 V	-5.000620 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000620 V	30.7%	Pass
-9 V DC	-9.000000 V	-9.001067 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001067 V	37.8%	Pass
7 V @ 53 Hz	7.000000 V	7.000397 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000397 V	16.4%	Pass
7 V @ 1000 Hz	7.000000 V	7.000760 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000760 V	31.4%	Pass
7 V @ 5000 Hz	7.000000 V	7.002590 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002590 V	7.19%	Pass
7 V @ 10000 Hz	7.000000 V	7.008460 V	6.928980 V	7.071020 V	1.50 e-03 V	0,008460 V	11.9%	Pass
CH 6								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500730 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000730 V	51.4%	Pass
0 V DC	0.000000 V	0.000003 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000003 V	0.624%	Pass
-4.5 V DC	-4.500000 V	-4.500670 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000670 V	47.2%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500270 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000270 V	22.1%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500540 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000540 V	44.3%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501450 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001450 V	8.05%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504210 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004210 V	11.9%	Pass
10 V Range								
9 V DC	9.000000 V	9.001180 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001180 V	41.8%	Pass
5 V DC	5.000000 V	5.000710 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000710 V	35.1%	Pass
0 V DC	0.000000 V	-0.000006 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000006 V	0.595%	Pass
-5 V DC	-5.000000 V	-5.000640 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000640 V	31.7%	Pass
-9 V DC	-9.000000 V	-9.001100 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001100 V	39%	Pass
7 V @ 53 Hz	7.000000 V	7.000397 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000397 V	16.4%	Pass
7 V @ 1000 Hz	7.000000 V	7.000763 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000763 V	31.5%	Pass
7 V @ 5000 Hz	7.000000 V	7.002323 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002323 V	6.45%	Pass
7 V @ 10000 Hz	7.000000 V	7.007570 V	6.928980 V	7.071020 V	1.50 e-03 V	0,007570 V	10.7%	Pass



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11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
CH 7								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500743 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000743 V	52.3%	Pass
0 V DC	0.000000 V	0.000007 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000007 V	1.38%	Pass
-4.5 V DC	-4.500000 V	-4.500670 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000670 V	47.2%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500560 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000560 V	45.9%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500520 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000520 V	42.6%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501650 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001650 V	9.16%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504900 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004900 V	13.8%	Pass
10 V Range								
9 V DC	9.000000 V	9.001160 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001160 V	41.1%	Pass
5 V DC	5.000000 V	5.000700 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000700 V	34.7%	Pass
0 V DC	0.000000 V	0.000016 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000016 V	1.59%	Pass
-5 V DC	-5.000000 V	-5.000590 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000590 V	29.2%	Pass
-9 V DC	-9.000000 V	-9.001010 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001010 V	35.8%	Pass
7 V @ 53 Hz	7.000000 V	7.000953 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000953 V	39.4%	Pass
7 V @ 1000 Hz	7.000000 V	7.000700 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000700 V	28.9%	Pass
7 V @ 5000 Hz	7.000000 V	7.002580 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002580 V	7.16%	Pass
7 V @ 10000 Hz	7.000000 V	7.009020 V	6.928980 V	7.071020 V	1.50 e-03 V	0,009020 V	12.7%	Pass
CH 8								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500710 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000710 V	50%	Pass
0 V DC	0.000000 V	0.000010 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000010 V	2%	Pass
-4.5 V DC	-4.500000 V	-4.500620 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000620 V	43.7%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500530 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000530 V	43.4%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500580 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000580 V	47.5%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501507 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001507 V	8.36%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504830 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004830 V	13.6%	Pass
10 V Range								
9 V DC	9.000000 V	9.001100 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001100 V	39%	Pass
5 V DC	5.000000 V	5.000670 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000670 V	33.2%	Pass
0 V DC	0.000000 V	0.000009 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000009 V	0.845%	Pass
-5 V DC	-5.000000 V	-5.000560 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000560 V	27.7%	Pass
-9 V DC	-9.000000 V	-9.000973 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,000973 V	34.5%	Pass
7 V @ 53 Hz	7.000000 V	7.000880 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000880 V	36.4%	Pass
7 V @ 1000 Hz	7.000000 V	7.000640 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000640 V	26.4%	Pass
7 V @ 5000 Hz	7.000000 V	7.002560 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002560 V	7.11%	Pass
7 V @ 10000 Hz	7.000000 V	7.008870 V	6.928980 V	7.071020 V	1.50 e-03 V	0,008870 V	12.5%	Pass
CH 9								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500780 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000780 V	54.9%	Pass
0 V DC	0.000000 V	0.000004 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000004 V	0.862%	Pass
-4.5 V DC	-4.500000 V	-4.500700 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000700 V	49.3%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500490 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000490 V	40.2%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500510 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000510 V	41.8%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501360 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001360 V	7.55%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504160 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004160 V	11.7%	Pass
10 V Range								
9 V DC	9.000000 V	9.001170 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001170 V	41.5%	Pass
5 V DC	5.000000 V	5.000700 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000700 V	34.7%	Pass
0 V DC	0.000000 V	0.000001 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000001 V	0.118%	Pass
-5 V DC	-5.000000 V	-5.000607 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000607 V	30%	Pass
-9 V DC	-9.000000 V	-9.001050 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001050 V	37.2%	Pass
7 V @ 53 Hz	7.000000 V	7.000850 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000850 V	35.1%	Pass
7 V @ 1000 Hz	7.000000 V	7.000660 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000660 V	27.3%	Pass
7 V @ 5000 Hz	7.000000 V	7.002190 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002190 V	6.08%	Pass
7 V @ 10000 Hz	7.000000 V	7.007490 V	6.928980 V	7.071020 V	1.50 e-03 V	0,007490 V	10.5%	Pass
CH 10								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500810 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000810 V	57%	Pass
0 V DC	0.000000 V	0.000013 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000013 V	2.5%	Pass
-4.5 V DC	-4.500000 V	-4.500730 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000730 V	51.4%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500210 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000210 V	17.2%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500680 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000680 V	55.7%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501550 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001550 V	8.6%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504577 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004577 V	12.9%	Pass
10 V Range								
9 V DC	9.000000 V	9.001250 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001250 V	44.3%	Pass
5 V DC	5.000000 V	5.000750 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000750 V	37.1%	Pass
0 V DC	0.000000 V	0.000015 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000015 V	1.43%	Pass
-5 V DC	-5.000000 V	-5.000633 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000633 V	31.4%	Pass
-9 V DC	-9.000000 V	-9.001110 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001110 V	39.4%	Pass



DEWETRON GmbH
 Parking 4
 8074 Grambach
 AUSTRIA

Kalibrierschein nach ISO/IEC 17025
 Calibration Certificate according to ISO/IEC 17025

AAT2550654
Akkreditierung Austria 0632
10.12.2025

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
7 V @ 53 Hz	7.000000 V	7.000150 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000150 V	6.2%	Pass
7 V @ 1000 Hz	7.000000 V	7.000830 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000830 V	34.3%	Pass
7 V @ 5000 Hz	7.000000 V	7.002620 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002620 V	7.27%	Pass
7 V @ 10000 Hz	7.000000 V	7.008540 V	6.928980 V	7.071020 V	1.50 e-03 V	0,008540 V	12%	Pass
CH 11								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500770 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000770 V	54.2%	Pass
0 V DC	0.000000 V	-0.000010 V	-0.000520 V	0.000520 V	3.40 e-06 V	-0,000010 V	1.87%	Pass
-4.5 V DC	-4.500000 V	-4.500740 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000740 V	52.1%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500200 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000200 V	16.4%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500563 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000563 V	46.2%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501350 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001350 V	7.49%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.503827 V	3.464480 V	3.535520 V	880.00 e-06 V	0,003827 V	10.8%	Pass
10 V Range								
9 V DC	9.000000 V	9.001220 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001220 V	43.3%	Pass
5 V DC	5.000000 V	5.000730 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000730 V	36.1%	Pass
0 V DC	0.000000 V	-0.000007 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000007 V	0.643%	Pass
-5 V DC	-5.000000 V	-5.000650 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000650 V	32.2%	Pass
-9 V DC	-9.000000 V	-9.001110 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001110 V	39.4%	Pass
7 V @ 53 Hz	7.000000 V	7.001010 V	6.997580 V	7.002420 V	920.00 e-06 V	0,001010 V	41.7%	Pass
7 V @ 1000 Hz	7.000000 V	7.000750 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000750 V	31%	Pass
7 V @ 5000 Hz	7.000000 V	7.002150 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002150 V	5.97%	Pass
7 V @ 10000 Hz	7.000000 V	7.007020 V	6.928980 V	7.071020 V	1.50 e-03 V	0,007020 V	9.88%	Pass
CH 12								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500760 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000760 V	53.5%	Pass
0 V DC	0.000000 V	0.000005 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000005 V	1.05%	Pass
-4.5 V DC	-4.500000 V	-4.500700 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000700 V	49.3%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500580 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000580 V	47.5%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500590 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000590 V	48.4%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501390 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001390 V	7.71%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.503670 V	3.464480 V	3.535520 V	880.00 e-06 V	0,003670 V	10.3%	Pass
10 V Range								
9 V DC	9.000000 V	9.001220 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001220 V	43.3%	Pass
5 V DC	5.000000 V	5.000730 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000730 V	36.1%	Pass
0 V DC	0.000000 V	-0.000003 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000003 V	0.342%	Pass
-5 V DC	-5.000000 V	-5.000670 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000670 V	33.2%	Pass
-9 V DC	-9.000000 V	-9.001140 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001140 V	40.4%	Pass
7 V @ 53 Hz	7.000000 V	7.000640 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000640 V	26.4%	Pass
7 V @ 1000 Hz	7.000000 V	7.000740 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000740 V	30.6%	Pass
7 V @ 5000 Hz	7.000000 V	7.002080 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002080 V	5.77%	Pass
7 V @ 10000 Hz	7.000000 V	7.007200 V	6.928980 V	7.071020 V	1.50 e-03 V	0,007200 V	10.1%	Pass
CH 13								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500770 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000770 V	54.2%	Pass
0 V DC	0.000000 V	-0.000010 V	-0.000520 V	0.000520 V	3.40 e-06 V	-0,000010 V	1.94%	Pass
-4.5 V DC	-4.500000 V	-4.500737 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000737 V	51.9%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500347 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000347 V	28.4%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500640 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000640 V	52.5%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501820 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001820 V	10.1%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505493 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005493 V	15.5%	Pass
10 V Range								
9 V DC	9.000000 V	9.001260 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001260 V	44.7%	Pass
5 V DC	5.000000 V	5.000750 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000750 V	37.1%	Pass
0 V DC	0.000000 V	-0.000013 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000013 V	1.24%	Pass
-5 V DC	-5.000000 V	-5.000690 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000690 V	34.2%	Pass
-9 V DC	-9.000000 V	-9.001170 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001170 V	41.5%	Pass
7 V @ 53 Hz	7.000000 V	7.000873 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000873 V	36.1%	Pass
7 V @ 1000 Hz	7.000000 V	7.000860 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000860 V	35.5%	Pass
7 V @ 5000 Hz	7.000000 V	7.003060 V	6.963980 V	7.036020 V	1.50 e-03 V	0,003060 V	8.5%	Pass
7 V @ 10000 Hz	7.000000 V	7.010110 V	6.928980 V	7.071020 V	1.50 e-03 V	0,010110 V	14.2%	Pass
CH 14								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500777 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000777 V	54.7%	Pass
0 V DC	0.000000 V	0.000006 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000006 V	1.08%	Pass
-4.5 V DC	-4.500000 V	-4.500700 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000700 V	49.3%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500270 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000270 V	22.1%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500630 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000630 V	51.6%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501830 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001830 V	10.2%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.504980 V	3.464480 V	3.535520 V	880.00 e-06 V	0,004980 V	14%	Pass
10 V Range								
9 V DC	9.000000 V	9.001250 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001250 V	44.3%	Pass



DEWETRON GmbH
 Parking 4
 8074 Grambach
 AUSTRIA

Kalibrierschein nach ISO/IEC 17025
 Calibration Certificate according to ISO/IEC 17025

AAT2550654
Akkreditierung Austria 0632
10.12.2025

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
5 V DC	5.000000 V	5.000750 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000750 V	37.1%	Pass
0 V DC	0.000000 V	-0.000001 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000001 V	0.0518%	Pass
-5 V DC	-5.000000 V	-5.000660 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000660 V	32.7%	Pass
-9 V DC	-9.000000 V	-9.001120 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001120 V	39.7%	Pass
7 V @ 53 Hz	7.000000 V	7.000830 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000830 V	34.3%	Pass
7 V @ 1000 Hz	7.000000 V	7.000840 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000840 V	34.7%	Pass
7 V @ 5000 Hz	7.000000 V	7.002850 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002850 V	7.91%	Pass
7 V @ 10000 Hz	7.000000 V	7.009210 V	6.928980 V	7.071020 V	1.50 e-03 V	0,009210 V	13%	Pass
CH 15								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500740 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000740 V	52.1%	Pass
0 V DC	0.000000 V	0.000006 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000006 V	1.11%	Pass
-4.5 V DC	-4.500000 V	-4.500690 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000690 V	48.6%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500317 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000317 V	26%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500550 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000550 V	45.1%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501303 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001303 V	7.23%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.503690 V	3.464480 V	3.535520 V	880.00 e-06 V	0,003690 V	10.4%	Pass
10 V Range								
9 V DC	9.000000 V	9.001260 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001260 V	44.7%	Pass
5 V DC	5.000000 V	5.000740 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000740 V	36.6%	Pass
0 V DC	0.000000 V	-0.000006 V	-0.001020 V	0.001020 V	3.40 e-06 V	-0,000006 V	0.575%	Pass
-5 V DC	-5.000000 V	-5.000680 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000680 V	33.7%	Pass
-9 V DC	-9.000000 V	-9.001160 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001160 V	41.1%	Pass
7 V @ 53 Hz	7.000000 V	7.000547 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000547 V	22.6%	Pass
7 V @ 1000 Hz	7.000000 V	7.000727 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000727 V	30%	Pass
7 V @ 5000 Hz	7.000000 V	7.002017 V	6.963980 V	7.036020 V	1.50 e-03 V	0,002017 V	5.6%	Pass
7 V @ 10000 Hz	7.000000 V	7.006660 V	6.928980 V	7.071020 V	1.50 e-03 V	0,006660 V	9.38%	Pass
CH 16								
#####								
5 V Range								
4.5 V DC	4.500000 V	4.500720 V	4.498580 V	4.501420 V	99.00 e-06 V	0,000720 V	50.7%	Pass
0 V DC	0.000000 V	0.000002 V	-0.000520 V	0.000520 V	3.40 e-06 V	0,000002 V	0.399%	Pass
-4.5 V DC	-4.500000 V	-4.500660 V	-4.501420 V	-4.498580 V	99.00 e-06 V	-0,000660 V	46.5%	Pass
3.5 V @ 53 Hz	3.500000 V	3.500300 V	3.498780 V	3.501220 V	590.00 e-06 V	0,000300 V	24.6%	Pass
3.5 V @ 1000 Hz	3.500000 V	3.500580 V	3.498780 V	3.501220 V	880.00 e-06 V	0,000580 V	47.5%	Pass
3.5 V @ 5000 Hz	3.500000 V	3.501740 V	3.481980 V	3.518020 V	880.00 e-06 V	0,001740 V	9.66%	Pass
3.5 V @ 10000 Hz	3.500000 V	3.505540 V	3.464480 V	3.535520 V	880.00 e-06 V	0,005540 V	15.6%	Pass
10 V Range								
9 V DC	9.000000 V	9.001220 V	8.997180 V	9.002820 V	170.00 e-06 V	0,001220 V	43.3%	Pass
5 V DC	5.000000 V	5.000730 V	4.997980 V	5.002020 V	110.00 e-06 V	0,000730 V	36.1%	Pass
0 V DC	0.000000 V	0.000006 V	-0.001020 V	0.001020 V	3.40 e-06 V	0,000006 V	0.598%	Pass
-5 V DC	-5.000000 V	-5.000640 V	-5.002020 V	-4.997980 V	110.00 e-06 V	-0,000640 V	31.7%	Pass
-9 V DC	-9.000000 V	-9.001100 V	-9.002820 V	-8.997180 V	170.00 e-06 V	-0,001100 V	39%	Pass
7 V @ 53 Hz	7.000000 V	7.000450 V	6.997580 V	7.002420 V	920.00 e-06 V	0,000450 V	18.6%	Pass
7 V @ 1000 Hz	7.000000 V	7.000780 V	6.997580 V	7.002420 V	1.50 e-03 V	0,000780 V	32.2%	Pass
7 V @ 5000 Hz	7.000000 V	7.003050 V	6.963980 V	7.036020 V	1.50 e-03 V	0,003050 V	8.47%	Pass
7 V @ 10000 Hz	7.000000 V	7.010350 V	6.928980 V	7.071020 V	1.50 e-03 V	0,010350 V	14.6%	Pass
Sensor Excitation Test								
CH1 +5V	5.00000 V	5.0011395 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0011395 V	11.4%	Pass
CH1 -5V	-5.00000 V	-5.0011386 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0011386 V	11.4%	Pass
CH1 12V	12.00000 V	11.7183637 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2816363 V	46.9%	Pass
CH2 +5V	5.00000 V	5.0010121 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0010121 V	10.1%	Pass
CH2 -5V	-5.00000 V	-5.0003227 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0003227 V	3.23%	Pass
CH2 12V	12.00000 V	11.7194799 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2805201 V	46.8%	Pass
CH3 +5V	5.00000 V	5.0010182 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0010182 V	10.2%	Pass
CH3 -5V	-5.00000 V	-5.0012667 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0012667 V	12.7%	Pass
CH3 12V	12.00000 V	11.7192740 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2807260 V	46.8%	Pass
CH4 +5V	5.00000 V	5.0009671 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009671 V	9.67%	Pass
CH4 -5V	-5.00000 V	-5.0004309 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004309 V	4.31%	Pass
CH4 12V	12.00000 V	11.7192507 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2807493 V	46.8%	Pass
CH5 +5V	5.00000 V	5.0009469 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009469 V	9.47%	Pass
CH5 -5V	-5.00000 V	-5.0005364 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0005364 V	5.36%	Pass
CH5 12V	12.00000 V	11.7203387 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2796613 V	46.6%	Pass
CH6 +5V	5.00000 V	5.0012274 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0012274 V	12.3%	Pass
CH6 -5V	-5.00000 V	-5.0004525 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004525 V	4.53%	Pass
CH6 12V	12.00000 V	11.7203909 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2796091 V	46.6%	Pass
CH7 +5V	5.00000 V	5.0009833 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009833 V	9.83%	Pass
CH7 -5V	-5.00000 V	-5.0004554 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004554 V	4.55%	Pass
CH7 12V	12.00000 V	11.7204624 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2795376 V	46.6%	Pass
CH8 +5V	5.00000 V	5.0009783 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009783 V	9.78%	Pass
CH8 -5V	-5.00000 V	-5.0004212 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004212 V	4.21%	Pass
CH8 12V	12.00000 V	11.7205382 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2794618 V	46.6%	Pass
CH9 +5V	5.00000 V	5.0009699 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009699 V	9.7%	Pass
CH9 -5V	-5.00000 V	-5.0004163 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004163 V	4.16%	Pass
CH9 12V	12.00000 V	11.7194527 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2805473 V	46.8%	Pass
CH10 +5V	5.00000 V	5.0009680 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009680 V	9.68%	Pass



DEWETRON GmbH
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 8074 Grambach
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Kalibrierschein nach ISO/IEC 17025
 Calibration Certificate according to ISO/IEC 17025

AAT2550654
Akkreditierung Austria 0632
10.12.2025

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
CH10 -5V	-5.00000 V	-5.0004829 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004829 V	4.83%	Pass
CH10 12V	12.00000 V	11.7194072 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2805928 V	46.8%	Pass
CH11 +5V	5.00000 V	5.0010774 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0010774 V	10.8%	Pass
CH11 -5V	-5.00000 V	-5.0004179 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004179 V	4.18%	Pass
CH11 12V	12.00000 V	11.7204246 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2795754 V	46.6%	Pass
CH12 +5V	5.00000 V	5.0014038 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0014038 V	14%	Pass
CH12 -5V	-5.00000 V	-5.0004117 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004117 V	4.12%	Pass
CH12 12V	12.00000 V	11.7204763 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2795237 V	46.6%	Pass
CH13 +5V	5.00000 V	5.0009909 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0009909 V	9.91%	Pass
CH13 -5V	-5.00000 V	-5.0004566 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004566 V	4.57%	Pass
CH13 12V	12.00000 V	11.7205401 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2794599 V	46.6%	Pass
CH14 +5V	5.00000 V	5.0010476 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0010476 V	10.5%	Pass
CH14 -5V	-5.00000 V	-5.0004780 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004780 V	4.78%	Pass
CH14 12V	12.00000 V	11.7204523 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2795477 V	46.6%	Pass
CH15 +5V	5.00000 V	5.0010717 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0010717 V	10.7%	Pass
CH15 -5V	-5.00000 V	-5.0005361 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0005361 V	5.36%	Pass
CH15 12V	12.00000 V	11.7200488 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2799512 V	46.7%	Pass
CH16 +5V	5.00000 V	5.0011777 V	4.9900000 V	5.0100000 V	46.00 e-06 V	0,0011777 V	11.8%	Pass
CH16 -5V	-5.00000 V	-5.0004988 V	-5.0100000 V	-4.9900000 V	46.00 e-06 V	-0,0004988 V	4.99%	Pass
CH16 12V	12.00000 V	11.7193697 V	11.4000000 V	12.6000000 V	170.00 e-06 V	-0,2806303 V	46.8%	Pass

Bandwidth-Test 10V Range
 Test-signal 7 V @ 70 kHz; IIR Filter OFF

Bandwidth Test CH 1	Pass	(1)
Bandwidth Test CH 2	Pass	(1)
Bandwidth Test CH 3	Pass	(1)
Bandwidth Test CH 4	Pass	(1)
Bandwidth Test CH 5	Pass	(1)
Bandwidth Test CH 6	Pass	(1)
Bandwidth Test CH 7	Pass	(1)
Bandwidth Test CH 8	Pass	(1)
Bandwidth Test CH 9	Pass	(1)
Bandwidth Test CH 10	Pass	(1)
Bandwidth Test CH 11	Pass	(1)
Bandwidth Test CH 12	Pass	(1)
Bandwidth Test CH 13	Pass	(1)
Bandwidth Test CH 14	Pass	(1)
Bandwidth Test CH 15	Pass	(1)
Bandwidth Test CH 16	Pass	(1)

Internal Reference Tests in 5V Range

First test point: 0.0045V		
Second test point: 1.2V		
Third test point: 2.4V		
First test point	Pass	(1)
Second test point	Pass	(1)
Third test point	Pass	(1)

SNR-Test 10V Range

Test-signal 0 V		
SNR Test CH 1	Pass	(1)
SNR Test CH 2	Pass	(1)
SNR Test CH 3	Pass	(1)
SNR Test CH 4	Pass	(1)
SNR Test CH 5	Pass	(1)
SNR Test CH 6	Pass	(1)
SNR Test CH 7	Pass	(1)
SNR Test CH 8	Pass	(1)
SNR Test CH 9	Pass	(1)
SNR Test CH 10	Pass	(1)
SNR Test CH 11	Pass	(1)
SNR Test CH 12	Pass	(1)
SNR Test CH 13	Pass	(1)
SNR Test CH 14	Pass	(1)
SNR Test CH 15	Pass	(1)
SNR Test CH 16	Pass	(1)

Inter Channel Phase Mismatch 10V Range

Test-signal 3 V @ 10 kHz		
Inter Chanel Phase Mismatch CH 1	Pass	(1)
Inter Chanel Phase Mismatch CH 2	Pass	(1)
Inter Chanel Phase Mismatch CH 3	Pass	(1)
Inter Chanel Phase Mismatch CH 4	Pass	(1)
Inter Chanel Phase Mismatch CH 5	Pass	(1)
Inter Chanel Phase Mismatch CH 6	Pass	(1)
Inter Chanel Phase Mismatch CH 7	Pass	(1)
Inter Chanel Phase Mismatch CH 8	Pass	(1)
Inter Chanel Phase Mismatch CH 9	Pass	(1)
Inter Chanel Phase Mismatch CH 10	Pass	(1)
Inter Chanel Phase Mismatch CH 11	Pass	(1)



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11. Testergebnisse / Test results

<u>Test Description</u>	<u>True Value</u>	<u>Test Result</u>	<u>Lower limit</u>	<u>Upper limit</u>	<u>Exp Uncert</u>	<u>Error</u>	<u>% of Tol</u>	<u>Status</u>
Inter Chanel Phase Mismatch CH 12								Pass (1)
Inter Chanel Phase Mismatch CH 13								Pass (1)
Inter Chanel Phase Mismatch CH 14								Pass (1)
Inter Chanel Phase Mismatch CH 15								Pass (1)
Inter Chanel Phase Mismatch CH 16								Pass (1)
Function Check Discrete Channels Discrete Channels Test								Pass (1)
CAN Interface Test CAN Interface								Pass (1)
Selftest Hardware Check (Selftest)								Pass (1)
37.5 °C @ BoardTemp	37.5 °C	37.1 °C	27.5 °C	47.5 °C		-0,4 °C	4.4%	Pass (1)

Ende des Kalibrierscheines / End of Calibration Certificate

