DEWETRON GmbH

Parkring 4
8074 Grambach
Austria

AAT2640079
Akkreditierung Austria 0632
03.06.2026

Kalibrierstelle für elektrische Messgrößen
Calibration body for electrical measurands

akkreditiert durch / *accredited by*
AKKREDITIERUNG AUSTRIA

Kalibrierzeichen
Calibration Mark

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

Gegenstand *Object*	6 Channel Data Acquisition
Hersteller *Manufacturer*	DEWETRON
Typ *Type*	TRION3-2420-ACC
Herstellernummer *Serial number*	A1260999
Auftraggeber *Customer*	
Kalibriernummer *Order number*	AAT2640079
Anzahl der Seiten des Kalibrierscheines *Number of pages of the certificate*	10
Datum der Kalibrierung *Date of calibration*	03.06.2026

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

Akkreditierung Austria ist Unterzeichner der multilateralen Übereinkommen der European Co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine.

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

Akkreditierung Austria is a 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.

Dieser Kalibrierschein darf nur vollständig und unverändert weiterverbreitet werden. Auszüge oder Änderungen sind unzulässig. Kalibrierscheine ohne Unterschrift und Stempel haben keine Gültigkeit.

This calibration certificate may not be reproduced other than in full. Calibration certificates without signature and seal are not valid.

Stempel *Seal*	Datum *Date*	Zeichnungsberechtigter *Authorised person*	Bearbeiter *Person responsible*
	03.06.2026	Stefan Strohmaier	Nandor Nagy

1. Kalibriergegenstand / *Calibration object*

6 Channel Data Acquisition DEWETRON TRION3-2420-ACC, S/N: A1260999

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*: TRION3-24xx-ACC-LV_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:*	23,3 °C
Rel. Luftfeuchte / *Rel. humidity:*	47,0 % r.H.
Kalibrierort / *Place of calibration:*	DEWETRON GmbH, Parkring 4, 8074 Grambach, Austria

6. Auftragnummer / *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 accreditited scope, a conformity statement cannot be made.

9. Kommentare / *Comments*

2420-ACC Test

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 resonable period for repeating the calibration.

10. Verwendete Normale / Standards used

Asset	Description	Serial Number	Certificate No.	Cal Date	Due Date
5522A 02	5522A CALIBRATOR	6032901	SA01506076	10-Feb-2026	10-Feb-2027
Keysight 3458A 03	3458A Multimeter	MY45052880	01331343	6-Mär-2026	6-Mär-2027

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: 39.0°C
Calibrator: 26.32°C

Kalibrierverfahren / calibration method:
CAL-KV-01_Gleichspannung_v1.0_2024-07-04.xlsx-02
CAL-KV-02_Wechselspannung_v1.0_2024-07-04.xlsx-02C
CAL-KV-02_Wechselspannung_v1.0_2024-07-04.xlsx-04C
CAL-KV-03 Gleichstromstärke v1.0 2024-07-04.xlsx-07

API version : 8.1.0.9904
Card type: TRION3-2420-ACC-6-BNC
Firmware version: 24
Board temperature: 46.19 degC
SN. of board: A1260999

IEPE Current Calibration

Samplerate: 10 kS/s
Resolution: 24 bit
LP Filter set to 30 Hz BU 8th Order
AAF Filter set to Off

Accuracy: ± 10 %

CH1	2.0000 mA	2.0024 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	0,0024 mA	1.19%	Pass
CH1	8.0000 mA	8.0507 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0507 mA	6.33%	Pass
CH1	20.000 mA	20.132 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,132 mA	6.58%	Pass
CH2	2.0000 mA	1.9812 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	-0,0188 mA	9.4%	Pass
CH2	8.0000 mA	8.0594 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0594 mA	7.42%	Pass
CH2	20.000 mA	20.164 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,164 mA	8.19%	Pass
CH3	2.0000 mA	1.9921 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	-0,0079 mA	3.94%	Pass
CH3	8.0000 mA	8.0519 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0519 mA	6.49%	Pass
CH3	20.000 mA	20.120 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,120 mA	6.01%	Pass
CH4	2.0000 mA	1.9986 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	-0,0014 mA	0.682%	Pass
CH4	8.0000 mA	8.0695 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0695 mA	8.69%	Pass
CH4	20.000 mA	20.171 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,171 mA	8.53%	Pass
CH5	2.0000 mA	2.0270 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	0,0270 mA	13.5%	Pass
CH5	8.0000 mA	8.0718 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0718 mA	8.98%	Pass
CH5	20.000 mA	20.164 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,164 mA	8.2%	Pass
CH6	2.0000 mA	1.9993 mA	1.8000 mA	2.2000 mA	140.00 e-06 mA	-0,0007 mA	0.347%	Pass
CH6	8.0000 mA	8.0428 mA	7.2000 mA	8.8000 mA	350.00 e-06 mA	0,0428 mA	5.35%	Pass
CH6	20.000 mA	20.170 mA	18.000 mA	22.000 mA	1.80 e-03 mA	0,170 mA	8.49%	Pass

IEPE Compliance Voltage Test

CH1 greater than 24 V	Pass	(1)
CH2 greater than 24 V	Pass	(1)
CH3 greater than 24 V	Pass	(1)
CH4 greater than 24 V	Pass	(1)
CH5 greater than 24 V	Pass	(1)
CH6 greater than 24 V	Pass	(1)

TEDS Test

CH1 TEDS	Pass	(1)
CH2 TEDS	Pass	(1)
CH3 TEDS	Pass	(1)
CH4 TEDS	Pass	(1)
CH5 TEDS	Pass	(1)
CH6 TEDS	Pass	(1)

CMRR Test
150 V @ 50 Hz Input; 100 V Range; 2000 kS/sec

CH1 better than 79 dB	Pass	(1)
CH2 better than 79 dB	Pass	(1)
CH3 better than 79 dB	Pass	(1)
CH4 better than 79 dB	Pass	(1)
CH5 better than 79 dB	Pass	(1)
CH6 better than 79 dB	Pass	(1)

150 V @ 1 kHz Input; 100 V Range; 2000 kS/sec

CH1 better than 55 dB	Pass	(1)
CH2 better than 55 dB	Pass	(1)
CH3 better than 55 dB	Pass	(1)
CH4 better than 55 dB	Pass	(1)
CH5 better than 55 dB	Pass	(1)

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
CH6 better than 55 dB								Pass	(1)
50 V @ 50 Hz Input; 0.2 V Range; 2000 kS/sec									
CH1 better than 132 dB								Pass	(1)
CH2 better than 132 dB								Pass	(1)
CH3 better than 132 dB								Pass	(1)
CH4 better than 132 dB								Pass	(1)
CH5 better than 132 dB								Pass	(1)
CH6 better than 132 dB								Pass	(1)
Overload Detection Test									
CH1 - CH6 LED								Pass	(1)
Counter Test									
CNT1								Pass	(1)

Voltage Calibration

Samplerate: 2000 kS/s
Resolution: 24 bit
LP Filter set to 600 kHz BU 8th Order
AAF Filter set to Off

Accuracy up to 10 V range:
DC to 1 kHz : ± 0.02 % of reading ± 0.02 % of range ± 20 µV
>1 kHz to 10 kHz : ± 0.1 % of reading ± 0.02 % of range ± 20 µV
>10 kz to 100 kHz : ± (0.015 % * f) of reading ± 0.02 % of range ± 20 µV

Accuracy above 10 V range:
DC to 1 kHz : ± 0.02 % of reading ± 0.02 % of range
>1 kHz to 5 kHz : ± 0.15 % of reading ± 0.02 % of range
>5 kz to 100 kHz : ± (0.05 % * f) of reading ± 0.02 % of range

f: frequency in kHz

Range: 0.2 V
##########
Test @ -0.18 V

CH1	-0.180000 V	-0.179999 V	-0.180096 V	-0.179904 V	9.30 e-06 V	0,000001 V	1.04%	Pass
CH2	-0.180000 V	-0.180003 V	-0.180096 V	-0.179904 V	9.30 e-06 V	-0,000003 V	3.47%	Pass
CH3	-0.180000 V	-0.180011 V	-0.180096 V	-0.179904 V	9.30 e-06 V	-0,000011 V	11.8%	Pass
CH4	-0.180000 V	-0.180015 V	-0.180096 V	-0.179904 V	9.30 e-06 V	-0,000015 V	15.6%	Pass
CH5	-0.180000 V	-0.180011 V	-0.180096 V	-0.179904 V	9.30 e-06 V	-0,000011 V	11.1%	Pass
CH6	-0.180000 V	-0.180012 V	-0.180096 V	-0.179904 V	9.30 e-06 V	-0,000012 V	12.8%	Pass

Test @ 0 V

CH1	0.000000 V	0.000001 V	-0.000060 V	0.000060 V	4.80 e-06 V	0,000001 V	1.27%	Pass
CH2	0.000000 V	-0.000001 V	-0.000060 V	0.000060 V	4.80 e-06 V	-0,000001 V	2.27%	Pass
CH3	0.000000 V	-0.000003 V	-0.000060 V	0.000060 V	4.80 e-06 V	-0,000003 V	5.5%	Pass
CH4	0.000000 V	-0.000003 V	-0.000060 V	0.000060 V	4.80 e-06 V	-0,000003 V	4.28%	Pass
CH5	0.000000 V	-0.000002 V	-0.000060 V	0.000060 V	4.80 e-06 V	-0,000002 V	3.91%	Pass
CH6	0.000000 V	-0.000005 V	-0.000060 V	0.000060 V	4.80 e-06 V	-0,000005 V	9.04%	Pass

Test @ 0.18 V

CH1	0.180000 V	0.180002 V	0.179904 V	0.180096 V	9.30 e-06 V	0,000002 V	2.43%	Pass
CH2	0.180000 V	0.180000 V	0.179904 V	0.180096 V	9.30 e-06 V	0,000000 V	0.347%	Pass
CH3	0.180000 V	0.179996 V	0.179904 V	0.180096 V	9.30 e-06 V	-0,000004 V	4.17%	Pass
CH4	0.180000 V	0.180001 V	0.179904 V	0.180096 V	9.30 e-06 V	0,000001 V	0.694%	Pass
CH5	0.180000 V	0.179997 V	0.179904 V	0.180096 V	9.30 e-06 V	-0,000003 V	2.78%	Pass
CH6	0.180000 V	0.179993 V	0.179904 V	0.180096 V	9.30 e-06 V	-0,000007 V	7.64%	Pass

Range: 1 V
##########
Test @ -0.9 V

CH1	-0.900000 V	-0.900004 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000004 V	1.08%	Pass
CH2	-0.900000 V	-0.900025 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000025 V	6.17%	Pass
CH3	-0.900000 V	-0.900059 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000059 V	14.7%	Pass
CH4	-0.900000 V	-0.900084 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000084 V	21.1%	Pass
CH5	-0.900000 V	-0.900059 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000059 V	14.8%	Pass
CH6	-0.900000 V	-0.900036 V	-0.900400 V	-0.899600 V	21.00 e-06 V	-0,000036 V	9.08%	Pass

Test @ 0 V

CH1	0.000000 V	-0.000002 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000002 V	0.926%	Pass
CH2	0.000000 V	-0.000004 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000004 V	1.79%	Pass
CH3	0.000000 V	-0.000007 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000007 V	3.16%	Pass
CH4	0.000000 V	-0.000010 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000010 V	4.7%	Pass
CH5	0.000000 V	-0.000010 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000010 V	4.55%	Pass
CH6	0.000000 V	-0.000014 V	-0.000220 V	0.000220 V	4.80 e-06 V	-0,000014 V	6.18%	Pass

Test @ 0.9 V

CH1	0.900000 V	0.900032 V	0.899600 V	0.900400 V	21.00 e-06 V	0,000032 V	7.92%	Pass
CH2	0.900000 V	0.900024 V	0.899600 V	0.900400 V	21.00 e-06 V	0,000024 V	5.92%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
CH3	0.900000 V	0.899993 V	0.899600 V	0.900400 V	21.00 e-06 V	-0,000007 V	1.75%	Pass
CH4	0.900000 V	0.900023 V	0.899600 V	0.900400 V	21.00 e-06 V	0,000023 V	5.83%	Pass
CH5	0.900000 V	0.899994 V	0.899600 V	0.900400 V	21.00 e-06 V	-0,000006 V	1.5%	Pass
CH6	0.900000 V	0.899963 V	0.899600 V	0.900400 V	21.00 e-06 V	-0,000037 V	9.33%	Pass
Range: 2 V								
################################								
Test @ -1.8 V								
CH1	-1.800000 V	-1.799990 V	-1.800780 V	-1.799220 V	32.00 e-06 V	0,000010 V	1.28%	Pass
CH2	-1.800000 V	-1.800030 V	-1.800780 V	-1.799220 V	32.00 e-06 V	-0,000030 V	3.85%	Pass
CH3	-1.800000 V	-1.800090 V	-1.800780 V	-1.799220 V	32.00 e-06 V	-0,000090 V	11.5%	Pass
CH4	-1.800000 V	-1.800140 V	-1.800780 V	-1.799220 V	32.00 e-06 V	-0,000140 V	17.9%	Pass
CH5	-1.800000 V	-1.800100 V	-1.800780 V	-1.799220 V	32.00 e-06 V	-0,000100 V	12.8%	Pass
CH6	-1.800000 V	-1.800100 V	-1.800780 V	-1.799220 V	32.00 e-06 V	-0,000100 V	12.8%	Pass
Test @ 0 V								
CH1	0.000000 V	-0.000017 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000017 V	4.07%	Pass
CH2	0.000000 V	-0.000019 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000019 V	4.47%	Pass
CH3	0.000000 V	-0.000018 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000018 V	4.17%	Pass
CH4	0.000000 V	-0.000027 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000027 V	6.43%	Pass
CH5	0.000000 V	-0.000029 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000029 V	6.93%	Pass
CH6	0.000000 V	-0.000041 V	-0.000420 V	0.000420 V	4.80 e-06 V	-0,000041 V	9.78%	Pass
Test @ 1.8 V								
CH1	1.800000 V	1.800060 V	1.799220 V	1.800780 V	32.00 e-06 V	0,000060 V	7.69%	Pass
CH2	1.800000 V	1.800050 V	1.799220 V	1.800780 V	32.00 e-06 V	0,000050 V	6.41%	Pass
CH3	1.800000 V	1.799983 V	1.799220 V	1.800780 V	32.00 e-06 V	-0,000017 V	2.14%	Pass
CH4	1.800000 V	1.800040 V	1.799220 V	1.800780 V	32.00 e-06 V	0,000040 V	5.13%	Pass
CH5	1.800000 V	1.799990 V	1.799220 V	1.800780 V	32.00 e-06 V	-0,000010 V	1.28%	Pass
CH6	1.800000 V	1.799970 V	1.799220 V	1.800780 V	32.00 e-06 V	-0,000030 V	3.85%	Pass
Range: 5 V								
################################								
Test @ -4.5 V								
CH1	-4.500000 V	-4.499997 V	-4.501920 V	-4.498080 V	120.00 e-06 V	0,000003 V	0.174%	Pass
CH2	-4.500000 V	-4.500120 V	-4.501920 V	-4.498080 V	120.00 e-06 V	-0,000120 V	6.25%	Pass
CH3	-4.500000 V	-4.500247 V	-4.501920 V	-4.498080 V	120.00 e-06 V	-0,000247 V	12.8%	Pass
CH4	-4.500000 V	-4.500373 V	-4.501920 V	-4.498080 V	120.00 e-06 V	-0,000373 V	19.4%	Pass
CH5	-4.500000 V	-4.500267 V	-4.501920 V	-4.498080 V	120.00 e-06 V	-0,000267 V	13.9%	Pass
CH6	-4.500000 V	-4.500200 V	-4.501920 V	-4.498080 V	120.00 e-06 V	-0,000200 V	10.4%	Pass
Test @ 0 V								
CH1	0.000000 V	-0.000016 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000016 V	1.6%	Pass
CH2	0.000000 V	-0.000024 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000024 V	2.31%	Pass
CH3	0.000000 V	-0.000030 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000030 V	2.99%	Pass
CH4	0.000000 V	-0.000054 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000054 V	5.29%	Pass
CH5	0.000000 V	-0.000056 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000056 V	5.51%	Pass
CH6	0.000000 V	-0.000062 V	-0.001020 V	0.001020 V	4.80 e-06 V	-0,000062 V	6.09%	Pass
Test @ 4.5 V								
CH1	4.500000 V	4.500103 V	4.498080 V	4.501920 V	120.00 e-06 V	0,000103 V	5.38%	Pass
CH2	4.500000 V	4.500093 V	4.498080 V	4.501920 V	120.00 e-06 V	0,000093 V	4.86%	Pass
CH3	4.500000 V	4.499907 V	4.498080 V	4.501920 V	120.00 e-06 V	-0,000093 V	4.86%	Pass
CH4	4.500000 V	4.500053 V	4.498080 V	4.501920 V	120.00 e-06 V	0,000053 V	2.78%	Pass
CH5	4.500000 V	4.499930 V	4.498080 V	4.501920 V	120.00 e-06 V	-0,000070 V	3.65%	Pass
CH6	4.500000 V	4.499837 V	4.498080 V	4.501920 V	120.00 e-06 V	-0,000163 V	8.51%	Pass
Range: 10 V								
################################								
Test @ -9 V								
CH1	-9.000000 V	-8.999950 V	-9.003820 V	-8.996180 V	200.00 e-06 V	0,000050 V	1.31%	Pass
CH2	-9.000000 V	-9.000250 V	-9.003820 V	-8.996180 V	200.00 e-06 V	-0,000250 V	6.54%	Pass
CH3	-9.000000 V	-9.000513 V	-9.003820 V	-8.996180 V	200.00 e-06 V	-0,000513 V	13.4%	Pass
CH4	-9.000000 V	-9.000780 V	-9.003820 V	-8.996180 V	200.00 e-06 V	-0,000780 V	20.4%	Pass
CH5	-9.000000 V	-9.000453 V	-9.003820 V	-8.996180 V	200.00 e-06 V	-0,000453 V	11.9%	Pass
CH6	-9.000000 V	-9.000370 V	-9.003820 V	-8.996180 V	200.00 e-06 V	-0,000370 V	9.69%	Pass
Test @ -5 V								
CH1	-5.000000 V	-4.999973 V	-5.003020 V	-4.996980 V	120.00 e-06 V	0,000027 V	0.883%	Pass
CH2	-5.000000 V	-5.000157 V	-5.003020 V	-4.996980 V	120.00 e-06 V	-0,000157 V	5.19%	Pass
CH3	-5.000000 V	-5.000343 V	-5.003020 V	-4.996980 V	120.00 e-06 V	-0,000343 V	11.4%	Pass
CH4	-5.000000 V	-5.000470 V	-5.003020 V	-4.996980 V	120.00 e-06 V	-0,000470 V	15.6%	Pass
CH5	-5.000000 V	-5.000317 V	-5.003020 V	-4.996980 V	120.00 e-06 V	-0,000317 V	10.5%	Pass
CH6	-5.000000 V	-5.000280 V	-5.003020 V	-4.996980 V	120.00 e-06 V	-0,000280 V	9.27%	Pass
Test @ 0 V								
CH1	0.000000 V	-0.000027 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000027 V	1.33%	Pass
CH2	0.000000 V	-0.000044 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000044 V	2.19%	Pass
CH3	0.000000 V	-0.000055 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000055 V	2.7%	Pass
CH4	0.000000 V	-0.000097 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000097 V	4.81%	Pass
CH5	0.000000 V	-0.000110 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000110 V	5.46%	Pass
CH6	0.000000 V	-0.000118 V	-0.002020 V	0.002020 V	4.80 e-06 V	-0,000118 V	5.83%	Pass
Test @ 5 V								
CH1	5.000000 V	5.000047 V	4.996980 V	5.003020 V	120.00 e-06 V	0,000047 V	1.55%	Pass
CH2	5.000000 V	5.000133 V	4.996980 V	5.003020 V	120.00 e-06 V	0,000133 V	4.42%	Pass
CH3	5.000000 V	5.000117 V	4.996980 V	5.003020 V	120.00 e-06 V	0,000117 V	3.86%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
CH4	5.000000 V	5.000197 V	4.996980 V	5.003020 V	120.00 e-06 V	0,000197 V	6.51%	Pass	
CH5	5.000000 V	5.000023 V	4.996980 V	5.003020 V	120.00 e-06 V	0,000023 V	0.773%	Pass	
CH6	5.000000 V	4.999960 V	4.996980 V	5.003020 V	120.00 e-06 V	-0,000040 V	1.32%	Pass	
Test @ 9 V									
CH1	9.000000 V	9.000260 V	8.996180 V	9.003820 V	200.00 e-06 V	0,000260 V	6.81%	Pass	
CH2	9.000000 V	9.000277 V	8.996180 V	9.003820 V	200.00 e-06 V	0,000277 V	7.24%	Pass	
CH3	9.000000 V	8.999933 V	8.996180 V	9.003820 V	200.00 e-06 V	-0,000067 V	1.75%	Pass	
CH4	9.000000 V	9.000220 V	8.996180 V	9.003820 V	200.00 e-06 V	0,000220 V	5.76%	Pass	
CH5	9.000000 V	8.999860 V	8.996180 V	9.003820 V	200.00 e-06 V	-0,000140 V	3.66%	Pass	
CH6	9.000000 V	8.999740 V	8.996180 V	9.003820 V	200.00 e-06 V	-0,000260 V	6.81%	Pass	
Test @ 7 V @ 50 Hz									
CH1	7.000000 V	6.999930 V	6.996580 V	7.003420 V	930.00 e-06 V	-0,000070 V	2.05%	Pass	
CH2	7.000000 V	7.000150 V	6.996580 V	7.003420 V	930.00 e-06 V	0,000150 V	4.39%	Pass	
CH3	7.000000 V	7.000213 V	6.996580 V	7.003420 V	930.00 e-06 V	0,000213 V	6.24%	Pass	
CH4	7.000000 V	7.000360 V	6.996580 V	7.003420 V	930.00 e-06 V	0,000360 V	10.5%	Pass	
CH5	7.000000 V	7.000123 V	6.996580 V	7.003420 V	930.00 e-06 V	0,000123 V	3.61%	Pass	
CH6	7.000000 V	7.000060 V	6.996580 V	7.003420 V	930.00 e-06 V	0,000060 V	1.75%	Pass	
Test @ 7 V @ 1 kHz									
CH1	7.000000 V	6.999587 V	6.996580 V	7.003420 V	1.50 e-03 V	-0,000413 V	12.1%	Pass	
CH2	7.000000 V	6.999800 V	6.996580 V	7.003420 V	1.50 e-03 V	-0,000200 V	5.85%	Pass	
CH3	7.000000 V	6.999897 V	6.996580 V	7.003420 V	1.50 e-03 V	-0,000103 V	3.02%	Pass	
CH4	7.000000 V	7.000027 V	6.996580 V	7.003420 V	1.50 e-03 V	0,000027 V	0.78%	Pass	
CH5	7.000000 V	6.999803 V	6.996580 V	7.003420 V	1.50 e-03 V	-0,000197 V	5.75%	Pass	
CH6	7.000000 V	6.999747 V	6.996580 V	7.003420 V	1.50 e-03 V	-0,000253 V	7.41%	Pass	
Test @ 7 V @ 5 kHz									
CH1	7.000000 V	6.999360 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000640 V	7.1%	Pass	
CH2	7.000000 V	6.999567 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000433 V	4.8%	Pass	
CH3	7.000000 V	6.999663 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000337 V	3.73%	Pass	
CH4	7.000000 V	6.999790 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000210 V	2.33%	Pass	
CH5	7.000000 V	6.999580 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000420 V	4.66%	Pass	
CH6	7.000000 V	6.999523 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000477 V	5.28%	Pass	
Test @ 7 V @ 10 kHz									
CH1	7.000000 V	6.999003 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000997 V	11%	Pass	
CH2	7.000000 V	6.999197 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000803 V	8.91%	Pass	
CH3	7.000000 V	6.999360 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000640 V	7.1%	Pass	
CH4	7.000000 V	6.999463 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000537 V	5.95%	Pass	
CH5	7.000000 V	6.999250 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000750 V	8.31%	Pass	
CH6	7.000000 V	6.999180 V	6.990980 V	7.009020 V	2.10 e-03 V	-0,000820 V	9.09%	Pass	
Test @ 7 V @ 50 kHz									
CH1	7.000000 V	6.993093 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006907 V	12.7%	Pass	
CH2	7.000000 V	6.993200 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006800 V	12.5%	Pass	
CH3	7.000000 V	6.993270 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006730 V	12.3%	Pass	
CH4	7.000000 V	6.993527 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006473 V	11.9%	Pass	
CH5	7.000000 V	6.993323 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006677 V	12.2%	Pass	
CH6	7.000000 V	6.993190 V	6.945480 V	7.054520 V	7.00 e-03 V	-0,006810 V	12.5%	Pass	
Test @ 7 V @ 100 kHz									
CH1	7.000000 V	6.973857 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,026143 V	24.4%	Pass	
CH2	7.000000 V	6.973787 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,026213 V	24.5%	Pass	
CH3	7.000000 V	6.973607 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,026393 V	24.7%	Pass	
CH4	7.000000 V	6.974397 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,025603 V	23.9%	Pass	
CH5	7.000000 V	6.974207 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,025793 V	24.1%	Pass	
CH6	7.000000 V	6.973783 V	6.892980 V	7.107020 V	7.30 e-03 V	-0,026217 V	24.5%	Pass	
Test @ 3 V @ 300 kHz									
CH1	3.000000 V	2.909350 V	2.727980 V	3.272020 V		-0,090650 V	33.3%	Pass	(1)
CH2	3.000000 V	2.908270 V	2.727980 V	3.272020 V		-0,091730 V	33.7%	Pass	(1)
CH3	3.000000 V	2.907690 V	2.727980 V	3.272020 V		-0,092310 V	33.9%	Pass	(1)
CH4	3.000000 V	2.909900 V	2.727980 V	3.272020 V		-0,090100 V	33.1%	Pass	(1)
CH5	3.000000 V	2.909660 V	2.727980 V	3.272020 V		-0,090340 V	33.2%	Pass	(1)
CH6	3.000000 V	2.908560 V	2.727980 V	3.272020 V		-0,091440 V	33.6%	Pass	(1)
Range: 20 V									
##############################									
Test @ -18 V									
CH1	-18.00000 V	-17.99980 V	-18.00760 V	-17.99240 V	360.00 e-06 V	0,00020 V	2.63%	Pass	
CH2	-18.00000 V	-18.00030 V	-18.00760 V	-17.99240 V	360.00 e-06 V	-0,00030 V	3.95%	Pass	
CH3	-18.00000 V	-18.00087 V	-18.00760 V	-17.99240 V	360.00 e-06 V	-0,00087 V	11.4%	Pass	
CH4	-18.00000 V	-18.00160 V	-18.00760 V	-17.99240 V	360.00 e-06 V	-0,00160 V	21.1%	Pass	
CH5	-18.00000 V	-18.00110 V	-18.00760 V	-17.99240 V	360.00 e-06 V	-0,00110 V	14.5%	Pass	
CH6	-18.00000 V	-18.00090 V	-18.00760 V	-17.99240 V	360.00 e-06 V	-0,00090 V	11.8%	Pass	
Test @ 0 V									
CH1	0.000000 V	-0.000177 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000177 V	4.41%	Pass	
CH2	0.000000 V	-0.000187 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000187 V	4.67%	Pass	
CH3	0.000000 V	-0.000175 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000175 V	4.37%	Pass	
CH4	0.000000 V	-0.000284 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000284 V	7.1%	Pass	
CH5	0.000000 V	-0.000311 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000311 V	7.78%	Pass	
CH6	0.000000 V	-0.000405 V	-0.004000 V	0.004000 V	4.90 e-06 V	-0,000405 V	10.1%	Pass	
Test @ 18 V									
CH1	18.00000 V	18.00050 V	17.99240 V	18.00760 V	360.00 e-06 V	0,00050 V	6.58%	Pass	
CH2	18.00000 V	18.00040 V	17.99240 V	18.00760 V	360.00 e-06 V	0,00040 V	5.26%	Pass	
CH3	18.00000 V	17.99980 V	17.99240 V	18.00760 V	360.00 e-06 V	-0,00020 V	2.63%	Pass	

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
CH4	18.00000 V	18.00060 V	17.99240 V	18.00760 V	360.00 e-06 V	0,00060 V	7.89%	Pass	
CH5	18.00000 V	18.00000 V	17.99240 V	18.00760 V	360.00 e-06 V	0,00000 V	0%	Pass	
CH6	18.00000 V	17.99953 V	17.99240 V	18.00760 V	360.00 e-06 V	-0,00047 V	6.14%	Pass	
Test @ 14 V @ 50 Hz									
CH1	14.00000 V	14.00000 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00000 V	0%	Pass	
CH2	14.00000 V	14.00040 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00040 V	5.88%	Pass	
CH3	14.00000 V	14.00050 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00050 V	7.35%	Pass	
CH4	14.00000 V	14.00103 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00103 V	15.2%	Pass	
CH5	14.00000 V	14.00070 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00070 V	10.3%	Pass	
CH6	14.00000 V	14.00040 V	13.99320 V	14.00680 V	3.40 e-03 V	0,00040 V	5.88%	Pass	
Test @ 14 V @ 1 kHz									
CH1	14.00000 V	13.99900 V	13.99320 V	14.00680 V	6.10 e-03 V	-0,00100 V	14.7%	Pass	
CH2	14.00000 V	13.99930 V	13.99320 V	14.00680 V	6.10 e-03 V	-0,00070 V	10.3%	Pass	
CH3	14.00000 V	13.99960 V	13.99320 V	14.00680 V	6.10 e-03 V	-0,00040 V	5.88%	Pass	
CH4	14.00000 V	14.00000 V	13.99320 V	14.00680 V	6.10 e-03 V	0,00000 V	0%	Pass	
CH5	14.00000 V	13.99970 V	13.99320 V	14.00680 V	6.10 e-03 V	-0,00030 V	4.41%	Pass	
CH6	14.00000 V	13.99940 V	13.99320 V	14.00680 V	6.10 e-03 V	-0,00060 V	8.82%	Pass	
Test @ 14 V @ 5 kHz									
CH1	14.00000 V	13.99400 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00600 V	24%	Pass	
CH2	14.00000 V	13.99413 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00587 V	23.5%	Pass	
CH3	14.00000 V	13.99630 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00370 V	14.8%	Pass	
CH4	14.00000 V	13.99400 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00600 V	24%	Pass	
CH5	14.00000 V	13.99607 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00393 V	15.7%	Pass	
CH6	14.00000 V	13.99400 V	13.97500 V	14.02500 V	6.10 e-03 V	-0,00600 V	24%	Pass	
Test @ 14 V @ 10 kHz									
CH1	14.00000 V	13.98430 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,01570 V	21.2%	Pass	
CH2	14.00000 V	13.98410 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,01590 V	21.5%	Pass	
CH3	14.00000 V	13.99020 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,00980 V	13.2%	Pass	
CH4	14.00000 V	13.98203 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,01797 V	24.3%	Pass	
CH5	14.00000 V	13.98907 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,01093 V	14.8%	Pass	
CH6	14.00000 V	13.98320 V	13.92600 V	14.07400 V	6.10 e-03 V	-0,01680 V	22.7%	Pass	
Test @ 14 V @ 50 kHz									
CH1	14.00000 V	13.95533 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,04467 V	12.6%	Pass	
CH2	14.00000 V	13.95450 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,04550 V	12.9%	Pass	
CH3	14.00000 V	13.97360 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,02640 V	7.46%	Pass	
CH4	14.00000 V	13.94480 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,05520 V	15.6%	Pass	
CH5	14.00000 V	13.97000 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,03000 V	8.47%	Pass	
CH6	14.00000 V	13.95150 V	13.64600 V	14.35400 V	25.00 e-03 V	-0,04850 V	13.7%	Pass	
Test @ 14 V @ 100 kHz									
CH1	14.00000 V	13.93457 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,06543 V	9.29%	Pass	
CH2	14.00000 V	13.93313 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,06687 V	9.5%	Pass	
CH3	14.00000 V	13.95323 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,04677 V	6.64%	Pass	
CH4	14.00000 V	13.92307 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,07693 V	10.9%	Pass	
CH5	14.00000 V	13.95037 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,04963 V	7.05%	Pass	
CH6	14.00000 V	13.93037 V	13.29600 V	14.70400 V	25.00 e-03 V	-0,06963 V	9.89%	Pass	
Test @ 3 V @ 300 kHz									
CH1	3.000000 V	2.941430 V	2.546000 V	3.454000 V		-0,058570 V	12.9%	Pass	(1)
CH2	3.000000 V	2.940030 V	2.546000 V	3.454000 V		-0,059970 V	13.2%	Pass	(1)
CH3	3.000000 V	2.943480 V	2.546000 V	3.454000 V		-0,056520 V	12.4%	Pass	(1)
CH4	3.000000 V	2.938880 V	2.546000 V	3.454000 V		-0,061120 V	13.5%	Pass	(1)
CH5	3.000000 V	2.944930 V	2.546000 V	3.454000 V		-0,055070 V	12.1%	Pass	(1)
CH6	3.000000 V	2.939860 V	2.546000 V	3.454000 V		-0,060140 V	13.2%	Pass	(1)
Range: 50 V									
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Test @ -45 V									
CH1	-45.00000 V	-44.99930 V	-45.01900 V	-44.98100 V	1.50 e-03 V	0,00070 V	3.68%	Pass	
CH2	-45.00000 V	-45.00073 V	-45.01900 V	-44.98100 V	1.50 e-03 V	-0,00073 V	3.86%	Pass	
CH3	-45.00000 V	-45.00250 V	-45.01900 V	-44.98100 V	1.50 e-03 V	-0,00250 V	13.2%	Pass	
CH4	-45.00000 V	-45.00370 V	-45.01900 V	-44.98100 V	1.50 e-03 V	-0,00370 V	19.5%	Pass	
CH5	-45.00000 V	-45.00280 V	-45.01900 V	-44.98100 V	1.50 e-03 V	-0,00280 V	14.7%	Pass	
CH6	-45.00000 V	-45.00207 V	-45.01900 V	-44.98100 V	1.50 e-03 V	-0,00207 V	10.9%	Pass	
Test @ 0 V									
CH1	0.000000 V	-0.000160 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000160 V	1.6%	Pass	
CH2	0.000000 V	-0.000242 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000242 V	2.42%	Pass	
CH3	0.000000 V	-0.000311 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000311 V	3.11%	Pass	
CH4	0.000000 V	-0.000388 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000388 V	3.88%	Pass	
CH5	0.000000 V	-0.000563 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000563 V	5.63%	Pass	
CH6	0.000000 V	-0.000597 V	-0.010000 V	0.010000 V	5.90 e-06 V	-0,000597 V	5.97%	Pass	
Test @ 45 V									
CH1	45.00000 V	45.00097 V	44.98100 V	45.01900 V	1.50 e-03 V	0,00097 V	5.09%	Pass	
CH2	45.00000 V	45.00093 V	44.98100 V	45.01900 V	1.50 e-03 V	0,00093 V	4.91%	Pass	
CH3	45.00000 V	44.99963 V	44.98100 V	45.01900 V	1.50 e-03 V	-0,00037 V	1.93%	Pass	
CH4	45.00000 V	45.00100 V	44.98100 V	45.01900 V	1.50 e-03 V	0,00100 V	5.26%	Pass	
CH5	45.00000 V	44.99973 V	44.98100 V	45.01900 V	1.50 e-03 V	-0,00027 V	1.4%	Pass	
CH6	45.00000 V	44.99867 V	44.98100 V	45.01900 V	1.50 e-03 V	-0,00133 V	7.02%	Pass	
Range: 100 V									
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Test @ -90 V									

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
CH1	-90.00000 V	-89.99963 V	-90.03800 V	-89.96200 V	2.70 e-03 V	0,00037 V	0.965%	Pass	
CH2	-90.00000 V	-90.00173 V	-90.03800 V	-89.96200 V	2.70 e-03 V	-0,00173 V	4.56%	Pass	
CH3	-90.00000 V	-90.00533 V	-90.03800 V	-89.96200 V	2.70 e-03 V	-0,00533 V	14%	Pass	
CH4	-90.00000 V	-90.00843 V	-90.03800 V	-89.96200 V	2.70 e-03 V	-0,00843 V	22.2%	Pass	
CH5	-90.00000 V	-90.00597 V	-90.03800 V	-89.96200 V	2.70 e-03 V	-0,00597 V	15.7%	Pass	
CH6	-90.00000 V	-90.00340 V	-90.03800 V	-89.96200 V	2.70 e-03 V	-0,00340 V	8.95%	Pass	
Test @ 0 V									
CH1	0.000000 V	-0.000269 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,000269 V	1.35%	Pass	
CH2	0.000000 V	-0.000485 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,000485 V	2.43%	Pass	
CH3	0.000000 V	-0.000554 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,000554 V	2.77%	Pass	
CH4	0.000000 V	-0.000978 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,000978 V	4.89%	Pass	
CH5	0.000000 V	-0.001136 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,001136 V	5.68%	Pass	
CH6	0.000000 V	-0.001166 V	-0.020000 V	0.020000 V	8.40 e-06 V	-0,001166 V	5.83%	Pass	
Test @ 90 V									
CH1	90.00000 V	90.00263 V	89.96200 V	90.03800 V	2.70 e-03 V	0,00263 V	6.93%	Pass	
CH2	90.00000 V	90.00210 V	89.96200 V	90.03800 V	2.70 e-03 V	0,00210 V	5.53%	Pass	
CH3	90.00000 V	89.99957 V	89.96200 V	90.03800 V	2.70 e-03 V	-0,00043 V	1.14%	Pass	
CH4	90.00000 V	90.00233 V	89.96200 V	90.03800 V	2.70 e-03 V	0,00233 V	6.14%	Pass	
CH5	90.00000 V	89.99997 V	89.96200 V	90.03800 V	2.70 e-03 V	-0,00003 V	0.0877%	Pass	
CH6	90.00000 V	89.99633 V	89.96200 V	90.03800 V	2.70 e-03 V	-0,00367 V	9.65%	Pass	
Internal Reference (PWM) Calibration									
0.2 V Range; 40 kSamples/sec									
0.095 V	0.095 V	0.095 V	0.075 V	0.115 V		0,000 V	0.00409%	Pass	(1)
10 V Range; 40 kSamples/sec									
4.0000 V	4.0000 V	4.0000 V	3.9972 V	4.0028 V		0,0000 V	0.426%	Pass	(1)
SNR Test									
Short Circuit Input; 0.2 V Range; 2000 kS/sec									
88.00 dB @ CH1	88.00 dB	91.11 dB	85.00 dB	200.00 dB		3,11 dB	2.78%	Pass	(1)
88.00 dB @ CH2	88.00 dB	91.35 dB	85.00 dB	200.00 dB		3,35 dB	2.99%	Pass	(1)
88.00 dB @ CH3	88.00 dB	91.35 dB	85.00 dB	200.00 dB		3,35 dB	2.99%	Pass	(1)
88.00 dB @ CH4	88.00 dB	91.34 dB	85.00 dB	200.00 dB		3,34 dB	2.98%	Pass	(1)
88.00 dB @ CH5	88.00 dB	91.32 dB	85.00 dB	200.00 dB		3,32 dB	2.97%	Pass	(1)
88.00 dB @ CH6	88.00 dB	91.32 dB	85.00 dB	200.00 dB		3,32 dB	2.97%	Pass	(1)
Short Circuit Input; 2 V Range; 2000 kS/sec									
100.00 dB @ CH1	100.00 dB	104.38 dB	95.00 dB	200.00 dB		4,38 dB	4.38%	Pass	(1)
100.00 dB @ CH2	100.00 dB	104.52 dB	95.00 dB	200.00 dB		4,52 dB	4.52%	Pass	(1)
100.00 dB @ CH3	100.00 dB	104.56 dB	95.00 dB	200.00 dB		4,56 dB	4.56%	Pass	(1)
100.00 dB @ CH4	100.00 dB	104.50 dB	95.00 dB	200.00 dB		4,50 dB	4.5%	Pass	(1)
100.00 dB @ CH5	100.00 dB	104.55 dB	95.00 dB	200.00 dB		4,55 dB	4.55%	Pass	(1)
100.00 dB @ CH6	100.00 dB	104.59 dB	95.00 dB	200.00 dB		4,59 dB	4.59%	Pass	(1)
Short Circuit Input; 5 V Range; 2000 kS/sec									
105.00 dB @ CH1	105.00 dB	108.19 dB	100.00 dB	200.00 dB		3,19 dB	3.36%	Pass	(1)
105.00 dB @ CH2	105.00 dB	108.21 dB	100.00 dB	200.00 dB		3,21 dB	3.38%	Pass	(1)
105.00 dB @ CH3	105.00 dB	108.25 dB	100.00 dB	200.00 dB		3,25 dB	3.42%	Pass	(1)
105.00 dB @ CH4	105.00 dB	108.21 dB	100.00 dB	200.00 dB		3,21 dB	3.38%	Pass	(1)
105.00 dB @ CH5	105.00 dB	108.27 dB	100.00 dB	200.00 dB		3,27 dB	3.44%	Pass	(1)
105.00 dB @ CH6	105.00 dB	108.30 dB	100.00 dB	200.00 dB		3,30 dB	3.47%	Pass	(1)
Short Circuit Input; 10 V Range; 2000 kS/sec									
105.00 dB @ CH1	105.00 dB	108.53 dB	100.00 dB	200.00 dB		3,53 dB	3.72%	Pass	(1)
105.00 dB @ CH2	105.00 dB	108.57 dB	100.00 dB	200.00 dB		3,57 dB	3.76%	Pass	(1)
105.00 dB @ CH3	105.00 dB	108.63 dB	100.00 dB	200.00 dB		3,63 dB	3.82%	Pass	(1)
105.00 dB @ CH4	105.00 dB	108.56 dB	100.00 dB	200.00 dB		3,56 dB	3.75%	Pass	(1)
105.00 dB @ CH5	105.00 dB	108.60 dB	100.00 dB	200.00 dB		3,60 dB	3.79%	Pass	(1)
105.00 dB @ CH6	105.00 dB	108.67 dB	100.00 dB	200.00 dB		3,67 dB	3.87%	Pass	(1)
Low Pass Filter Test									
the digital filter is turned off during following tests									
3V @ 330 kHz Input; 10 V Range; 1000 kHz analog filter; 2000 kS/sec									
-0.30 dB @ CH1	-0.30 dB	-0.32 dB	-0.80 dB	0.20 dB		-0,02 dB	4.91%	Pass	(1)
-0.30 dB @ CH2	-0.30 dB	-0.33 dB	-0.80 dB	0.20 dB		-0,03 dB	5.71%	Pass	(1)
-0.30 dB @ CH3	-0.30 dB	-0.33 dB	-0.80 dB	0.20 dB		-0,03 dB	6.13%	Pass	(1)
-0.30 dB @ CH4	-0.30 dB	-0.32 dB	-0.80 dB	0.20 dB		-0,02 dB	4.56%	Pass	(1)
-0.30 dB @ CH5	-0.30 dB	-0.32 dB	-0.80 dB	0.20 dB		-0,02 dB	4.72%	Pass	(1)
-0.30 dB @ CH6	-0.30 dB	-0.33 dB	-0.80 dB	0.20 dB		-0,03 dB	5.51%	Pass	(1)
3V @ 330 kHz Input; 10 V Range; 333 kHz analog filte; 2000 kS/sec									
-3.00 dB @ CH1	-3.00 dB	-2.62 dB	-4.00 dB	-2.00 dB		0,38 dB	37.5%	Pass	(1)
-3.00 dB @ CH2	-3.00 dB	-2.67 dB	-4.00 dB	-2.00 dB		0,33 dB	33.3%	Pass	(1)
-3.00 dB @ CH3	-3.00 dB	-2.66 dB	-4.00 dB	-2.00 dB		0,34 dB	33.7%	Pass	(1)
-3.00 dB @ CH4	-3.00 dB	-2.65 dB	-4.00 dB	-2.00 dB		0,35 dB	35.4%	Pass	(1)
-3.00 dB @ CH5	-3.00 dB	-2.63 dB	-4.00 dB	-2.00 dB		0,37 dB	37.5%	Pass	(1)
-3.00 dB @ CH6	-3.00 dB	-2.66 dB	-4.00 dB	-2.00 dB		0,34 dB	34.1%	Pass	(1)
3V @ 100 kHz Input; 10 V Range; 100 kHz analog filter; 2000 kS/sec									
-3.00 dB @ CH1	-3.00 dB	-2.87 dB	-4.00 dB	-2.00 dB		0,13 dB	12.5%	Pass	(1)
-3.00 dB @ CH2	-3.00 dB	-2.82 dB	-4.00 dB	-2.00 dB		0,18 dB	17.6%	Pass	(1)
-3.00 dB @ CH3	-3.00 dB	-2.88 dB	-4.00 dB	-2.00 dB		0,12 dB	12.3%	Pass	(1)
-3.00 dB @ CH4	-3.00 dB	-2.88 dB	-4.00 dB	-2.00 dB		0,12 dB	12.4%	Pass	(1)
-3.00 dB @ CH5	-3.00 dB	-2.87 dB	-4.00 dB	-2.00 dB		0,13 dB	13.1%	Pass	(1)

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
-3.00 dB @ CH6	-3.00 dB	-2.85 dB	-4.00 dB	-2.00 dB		0,15 dB	15.1%	Pass	(1)
Inter Channel Phase Mismatch Test									
1.2 V @ 10 kHz Input; 2 V Range; 2000 kS/sec; Without Divider									
0.000 _deg @ CH1	0.000 _deg	0.000 _deg	-0.280 _deg	0.280 _deg		0,000 _deg	0%	Pass	(1)
0.000 _deg @ CH2	0.000 _deg	-0.003 _deg	-0.280 _deg	0.280 _deg		-0,003 _deg	1.09%	Pass	(1)
0.000 _deg @ CH3	0.000 _deg	-0.003 _deg	-0.280 _deg	0.280 _deg		-0,003 _deg	1.09%	Pass	(1)
0.000 _deg @ CH4	0.000 _deg	0.007 _deg	-0.280 _deg	0.280 _deg		0,007 _deg	2.5%	Pass	(1)
0.000 _deg @ CH5	0.000 _deg	0.002 _deg	-0.280 _deg	0.280 _deg		0,002 _deg	0.791%	Pass	(1)
0.000 _deg @ CH6	0.000 _deg	0.004 _deg	-0.280 _deg	0.280 _deg		0,004 _deg	1.36%	Pass	(1)
1.2 V @ 10 kHz Input; 20 V Range; 2000 kS/sec; With Divider									
0.000 _deg @ CH1	0.000 _deg	0.000 _deg	-0.280 _deg	0.280 _deg		0,000 _deg	0%	Pass	(1)
0.000 _deg @ CH2	0.000 _deg	0.064 _deg	-0.280 _deg	0.280 _deg		0,064 _deg	22.7%	Pass	(1)
0.000 _deg @ CH3	0.000 _deg	0.101 _deg	-0.280 _deg	0.280 _deg		0,101 _deg	36%	Pass	(1)
0.000 _deg @ CH4	0.000 _deg	0.051 _deg	-0.280 _deg	0.280 _deg		0,051 _deg	18.4%	Pass	(1)
0.000 _deg @ CH5	0.000 _deg	0.097 _deg	-0.280 _deg	0.280 _deg		0,097 _deg	34.8%	Pass	(1)
0.000 _deg @ CH6	0.000 _deg	0.062 _deg	-0.280 _deg	0.280 _deg		0,062 _deg	22.3%	Pass	(1)
High Pass Filter Test									
10 V Input; 10 V Range; 1 kS/sec									
0.160 Hz @ CH1	0.160 Hz	0.155 Hz	0.128 Hz	0.192 Hz		-0,005 Hz	15.5%	Pass	(1)
0.160 Hz @ CH2	0.160 Hz	0.152 Hz	0.128 Hz	0.192 Hz		-0,008 Hz	24.7%	Pass	(1)
0.160 Hz @ CH3	0.160 Hz	0.150 Hz	0.128 Hz	0.192 Hz		-0,010 Hz	31.9%	Pass	(1)
0.160 Hz @ CH4	0.160 Hz	0.160 Hz	0.128 Hz	0.192 Hz		0,000 Hz	0.464%	Pass	(1)
0.160 Hz @ CH5	0.160 Hz	0.155 Hz	0.128 Hz	0.192 Hz		-0,005 Hz	14.9%	Pass	(1)
0.160 Hz @ CH6	0.160 Hz	0.153 Hz	0.128 Hz	0.192 Hz		-0,007 Hz	22%	Pass	(1)
Selftest									
Hardware Check (Selftest)								Pass	(1)
43.0 °C @ BoardTemp	43.0 °C	48.8 °C	33.0 °C	53.0 °C		5,8 °C	57.5%	Pass	(1)

Ende des Kalibrierscheines / *End of Calibration Certificate*