DEWETRON GmbH

Parkring 4
8074 Grambach
Austria

AAT2540295
Akkreditierung Austria 0632
03.04.2025

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*	8 Channel Data Acquisition
Hersteller *Manufacturer*	DEWETRON
Typ *Type*	TRION-2402-V
Herstellernummer *Serial number*	A015064D
Auftraggeber *Customer*	
Kalibriernummer *Order number*	AAT2540295
Anzahl der Seiten des Kalibrierscheines *Number of pages of the certificate*	13
Datum der Kalibrierung *Date of calibration*	03.04.2025

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.

Stempel *Seal*	Datum *Date*	Zeichnungsberechtigter *Authorised person*	Bearbeiter *Person responsible*
	03.04.2025	Stefan Strohmaier	Nandor Nagy

1. Kalibriergegenstand / *Calibration object*

8 Channel Data Acquisition DEWETRON TRION-2402-V, S/N: A015064D

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*: TRION-2402-V_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:*	24,0 °C
Rel. Luftfeuchte / *Rel. humidity:*	37,3 % 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*

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	5522A CALIBRATOR	2940903	N9102024	31-Okt-2024	31-Okt-2025
Keysight 3458A 05	3458A Multimeter	MY45056148	42082024	8-Aug-2024	8-Aug-2025

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: 38.0°C
Calibrator: 26.62°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

API Version: 7.4.2.7598
Card Type: TRION-2402-V-8-B
Firmware Version: 1012
Model version: 0.10
XML version: SVN 1446722136
SN. of board: A015064D
SN. of connector: 00472381

Accuracy:
<= 10 V Range
DC to 1kHz : +/-0.02% of Reading +/-0.02% of Range +/-30µV
>1kHz to 5kHz : +/-0.3% of Reading +/-0.02% of Range +/-30µV
>5kHz to 10kHz : +/-1% of Reading +/-0.02% of Range +/-30µV
> 10 V Range
DC to 1kHz : +/-0.02% of Reading +/-0.02% of Range +/-3mV
>1kHz to 5kHz : +/-0.3% of Reading +/-0.02% of Range +/-3mV
>5kHz to 10kHz : +/-1% of Reading +/-0.02% of Range +/-3mV

All Tests done with appropriate Range
Softwarefilter (IIR-Filter) turned off
SampleRate for Testsignals >1kHz: 200kS/s
SampleRate for all other Tests: 50kS/s

Range: 0.3V
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Test @ 0V DC

Channel 1	0.000000 V	-0.000001 V	-0.000090 V	0.000090 V	3.40 e-06 V	-0,000001 V	1.37%	Pass
Channel 2	0.000000 V	-0.000002 V	-0.000090 V	0.000090 V	3.40 e-06 V	-0,000002 V	2.75%	Pass
Channel 3	0.000000 V	0.000007 V	-0.000090 V	0.000090 V	3.40 e-06 V	0,000007 V	7.55%	Pass
Channel 4	0.000000 V	-0.000004 V	-0.000090 V	0.000090 V	3.40 e-06 V	-0,000004 V	4.84%	Pass
Channel 5	0.000000 V	0.000033 V	-0.000090 V	0.000090 V	3.40 e-06 V	0,000033 V	36.5%	Pass
Channel 6	0.000000 V	0.000008 V	-0.000090 V	0.000090 V	3.40 e-06 V	0,000008 V	8.48%	Pass
Channel 7	0.000000 V	0.000002 V	-0.000090 V	0.000090 V	3.40 e-06 V	0,000002 V	2.02%	Pass
Channel 8	0.000000 V	-0.000001 V	-0.000090 V	0.000090 V	3.40 e-06 V	-0,000001 V	0.598%	Pass

Test @ 0.03V DC

Channel 1	0.030000 V	0.029993 V	0.029904 V	0.030096 V	3.60 e-06 V	-0,000007 V	7.43%	Pass
Channel 2	0.030000 V	0.029992 V	0.029904 V	0.030096 V	3.60 e-06 V	-0,000008 V	7.88%	Pass
Channel 3	0.030000 V	0.030000 V	0.029904 V	0.030096 V	3.60 e-06 V	0,000000 V	0.0347%	Pass
Channel 4	0.030000 V	0.029990 V	0.029904 V	0.030096 V	3.60 e-06 V	-0,000010 V	10.3%	Pass
Channel 5	0.030000 V	0.030026 V	0.029904 V	0.030096 V	3.60 e-06 V	0,000026 V	26.7%	Pass
Channel 6	0.030000 V	0.030001 V	0.029904 V	0.030096 V	3.60 e-06 V	0,000001 V	0.556%	Pass
Channel 7	0.030000 V	0.029996 V	0.029904 V	0.030096 V	3.60 e-06 V	-0,000004 V	3.65%	Pass
Channel 8	0.030000 V	0.029995 V	0.029904 V	0.030096 V	3.60 e-06 V	-0,000005 V	5.59%	Pass

Test @ 0.15V DC

Channel 1	0.150000 V	0.149966 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000034 V	28.3%	Pass
Channel 2	0.150000 V	0.149968 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000032 V	26.7%	Pass
Channel 3	0.150000 V	0.149972 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000028 V	23.3%	Pass
Channel 4	0.150000 V	0.149964 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000036 V	30%	Pass
Channel 5	0.150000 V	0.149996 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000004 V	3.33%	Pass
Channel 6	0.150000 V	0.149968 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000032 V	26.4%	Pass
Channel 7	0.150000 V	0.149972 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000028 V	23.3%	Pass
Channel 8	0.150000 V	0.149972 V	0.149880 V	0.150120 V	5.30 e-06 V	-0,000028 V	23.3%	Pass

Test @ 0.27V DC

Channel 1	0.270000 V	0.269946 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000054 V	37.5%	Pass
Channel 2	0.270000 V	0.269950 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000050 V	34.7%	Pass
Channel 3	0.270000 V	0.269950 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000050 V	34.7%	Pass
Channel 4	0.270000 V	0.269944 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000056 V	38.9%	Pass
Channel 5	0.270000 V	0.269973 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000027 V	18.7%	Pass
Channel 6	0.270000 V	0.269945 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000055 V	38.2%	Pass
Channel 7	0.270000 V	0.269955 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000045 V	31.5%	Pass
Channel 8	0.270000 V	0.269956 V	0.269856 V	0.270144 V	8.20 e-06 V	-0,000044 V	30.6%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Test @ -0.27V DC								
Channel 1	-0.270000 V	-0.269956 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000044 V	30.6%	Pass
Channel 2	-0.270000 V	-0.269962 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000038 V	26.6%	Pass
Channel 3	-0.270000 V	-0.269950 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000050 V	34.7%	Pass
Channel 4	-0.270000 V	-0.269962 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000038 V	26.4%	Pass
Channel 5	-0.270000 V	-0.269921 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000079 V	55.1%	Pass
Channel 6	-0.270000 V	-0.269937 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000063 V	43.8%	Pass
Channel 7	-0.270000 V	-0.269959 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000041 V	28.5%	Pass
Channel 8	-0.270000 V	-0.269967 V	-0.270144 V	-0.269856 V	8.20 e-06 V	0,000033 V	22.9%	Pass
Test @ 0.03V RMS @ 1000Hz								
Channel 1	0.030000 V	0.029981 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000019 V	20.1%	Pass
Channel 2	0.030000 V	0.029980 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000020 V	21.2%	Pass
Channel 3	0.030000 V	0.029979 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000021 V	22.4%	Pass
Channel 4	0.030000 V	0.029979 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000021 V	21.9%	Pass
Channel 5	0.030000 V	0.029979 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000021 V	21.9%	Pass
Channel 6	0.030000 V	0.029978 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000022 V	23.4%	Pass
Channel 7	0.030000 V	0.029978 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000022 V	22.5%	Pass
Channel 8	0.030000 V	0.029980 V	0.029904 V	0.030096 V	14.00 e-06 V	-0,000020 V	21.3%	Pass
Test @ 0.21V RMS @ 20Hz								
Channel 1	0.210000 V	0.209964 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000036 V	27.3%	Pass
Channel 2	0.210000 V	0.209968 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000032 V	24.2%	Pass
Channel 3	0.210000 V	0.209963 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000037 V	28%	Pass
Channel 4	0.210000 V	0.209966 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000034 V	25.8%	Pass
Channel 5	0.210000 V	0.209960 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000040 V	30.1%	Pass
Channel 6	0.210000 V	0.209957 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000043 V	32.8%	Pass
Channel 7	0.210000 V	0.209969 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000031 V	23.5%	Pass
Channel 8	0.210000 V	0.209972 V	0.209868 V	0.210132 V	90.00 e-06 V	-0,000028 V	21.2%	Pass
Test @ 0.21V RMS @ 50Hz								
Channel 1	0.210000 V	0.209966 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000034 V	25.8%	Pass
Channel 2	0.210000 V	0.209970 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000030 V	22.7%	Pass
Channel 3	0.210000 V	0.209965 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000035 V	26.8%	Pass
Channel 4	0.210000 V	0.209967 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000033 V	24.7%	Pass
Channel 5	0.210000 V	0.209961 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000039 V	29.5%	Pass
Channel 6	0.210000 V	0.209957 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000043 V	32.6%	Pass
Channel 7	0.210000 V	0.209969 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000031 V	23.5%	Pass
Channel 8	0.210000 V	0.209972 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000028 V	21.2%	Pass
Test @ 0.21V RMS @ 1000Hz								
Channel 1	0.210000 V	0.209890 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000110 V	83.6%	Pass
Channel 2	0.210000 V	0.209887 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000113 V	85.6%	Pass
Channel 3	0.210000 V	0.209881 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000119 V	90.2%	Pass
Channel 4	0.210000 V	0.209884 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000116 V	87.9%	Pass
Channel 5	0.210000 V	0.209880 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000120 V	90.9%	Pass
Channel 6	0.210000 V	0.209874 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000126 V	95.2%	Pass
Channel 7	0.210000 V	0.209882 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000118 V	89.4%	Pass
Channel 8	0.210000 V	0.209890 V	0.209868 V	0.210132 V	66.00 e-06 V	-0,000110 V	83.3%	Pass
Range: 1V								
##############################								
Test @ 0.1V DC								
Channel 1	0.100000 V	0.099965 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000035 V	13.9%	Pass
Channel 2	0.100000 V	0.099967 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000033 V	13.3%	Pass
Channel 3	0.100000 V	0.099996 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000004 V	1.63%	Pass
Channel 4	0.100000 V	0.099969 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000031 V	12.5%	Pass
Channel 5	0.100000 V	0.100033 V	0.099750 V	0.100250 V	4.20 e-06 V	0,000033 V	13.2%	Pass
Channel 6	0.100000 V	0.099947 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000053 V	21.2%	Pass
Channel 7	0.100000 V	0.099975 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000025 V	10.2%	Pass
Channel 8	0.100000 V	0.099976 V	0.099750 V	0.100250 V	4.20 e-06 V	-0,000024 V	9.73%	Pass
Test @ 0.5V DC								
Channel 1	0.500000 V	0.499925 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000075 V	22.6%	Pass
Channel 2	0.500000 V	0.499929 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000071 V	21.6%	Pass
Channel 3	0.500000 V	0.499953 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000047 V	14.1%	Pass
Channel 4	0.500000 V	0.499932 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000068 V	20.5%	Pass
Channel 5	0.500000 V	0.499986 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000014 V	4.24%	Pass
Channel 6	0.500000 V	0.499890 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000110 V	33.2%	Pass
Channel 7	0.500000 V	0.499943 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000057 V	17.3%	Pass
Channel 8	0.500000 V	0.499948 V	0.499670 V	0.500330 V	9.80 e-06 V	-0,000052 V	15.9%	Pass
Test @ 0.9V DC								
Channel 1	0.900000 V	0.899896 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000104 V	25.4%	Pass
Channel 2	0.900000 V	0.899904 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000096 V	23.5%	Pass
Channel 3	0.900000 V	0.899919 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000081 V	19.8%	Pass
Channel 4	0.900000 V	0.899908 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000092 V	22.5%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 5	0.900000 V	0.899950 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000050 V	12.3%	Pass
Channel 6	0.900000 V	0.899849 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000151 V	36.8%	Pass
Channel 7	0.900000 V	0.899921 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000079 V	19.3%	Pass
Channel 8	0.900000 V	0.899931 V	0.899590 V	0.900410 V	15.00 e-06 V	-0,000069 V	16.8%	Pass
Test @ -0.9V DC								
Channel 1	-0.900000 V	-0.899938 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000062 V	15.1%	Pass
Channel 2	-0.900000 V	-0.899942 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000058 V	14.1%	Pass
Channel 3	-0.900000 V	-0.899907 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000093 V	22.6%	Pass
Channel 4	-0.900000 V	-0.899952 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000048 V	11.7%	Pass
Channel 5	-0.900000 V	-0.899862 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000138 V	33.7%	Pass
Channel 6	-0.900000 V	-0.899918 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000082 V	19.9%	Pass
Channel 7	-0.900000 V	-0.899946 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000054 V	13.1%	Pass
Channel 8	-0.900000 V	-0.899965 V	-0.900410 V	-0.899590 V	15.00 e-06 V	0,000035 V	8.46%	Pass
Test @ 0.7V RMS @ 20Hz								
Channel 1	0.700000 V	0.699939 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000061 V	16.4%	Pass
Channel 2	0.700000 V	0.699947 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000053 V	14.2%	Pass
Channel 3	0.700000 V	0.699938 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000062 V	16.8%	Pass
Channel 4	0.700000 V	0.699951 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000049 V	13.2%	Pass
Channel 5	0.700000 V	0.699932 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000068 V	18.5%	Pass
Channel 6	0.700000 V	0.699916 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000084 V	22.6%	Pass
Channel 7	0.700000 V	0.699957 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000043 V	11.7%	Pass
Channel 8	0.700000 V	0.699967 V	0.699630 V	0.700370 V	320.00 e-06 V	-0,000033 V	8.83%	Pass
Test @ 0.7V RMS @ 50Hz								
Channel 1	0.700000 V	0.699947 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000053 V	14.3%	Pass
Channel 2	0.700000 V	0.699953 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000047 V	12.8%	Pass
Channel 3	0.700000 V	0.699944 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000056 V	15.1%	Pass
Channel 4	0.700000 V	0.699956 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000044 V	11.8%	Pass
Channel 5	0.700000 V	0.699938 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000062 V	16.7%	Pass
Channel 6	0.700000 V	0.699923 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000077 V	20.8%	Pass
Channel 7	0.700000 V	0.699961 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000039 V	10.5%	Pass
Channel 8	0.700000 V	0.699973 V	0.699630 V	0.700370 V	210.00 e-06 V	-0,000027 V	7.21%	Pass
Test @ 0.7V RMS @ 1000Hz								
Channel 1	0.700000 V	0.699775 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000225 V	60.7%	Pass
Channel 2	0.700000 V	0.699773 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000227 V	61.3%	Pass
Channel 3	0.700000 V	0.699764 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000236 V	63.9%	Pass
Channel 4	0.700000 V	0.699778 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000222 V	60%	Pass
Channel 5	0.700000 V	0.699757 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000243 V	65.8%	Pass
Channel 6	0.700000 V	0.699741 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000259 V	69.9%	Pass
Channel 7	0.700000 V	0.699774 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000226 V	61%	Pass
Channel 8	0.700000 V	0.699792 V	0.699630 V	0.700370 V	160.00 e-06 V	-0,000208 V	56.3%	Pass
Range: 3V								
################################								
Test @ 0.3V DC								
Channel 1	0.300000 V	0.299894 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000106 V	15.3%	Pass
Channel 2	0.300000 V	0.299897 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000103 V	14.9%	Pass
Channel 3	0.300000 V	0.299986 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000014 V	2.08%	Pass
Channel 4	0.300000 V	0.299916 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000084 V	12.2%	Pass
Channel 5	0.300000 V	0.300070 V	0.299310 V	0.300690 V	8.90 e-06 V	0,000070 V	10.1%	Pass
Channel 6	0.300000 V	0.299803 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000197 V	28.6%	Pass
Channel 7	0.300000 V	0.299923 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000077 V	11.2%	Pass
Channel 8	0.300000 V	0.299927 V	0.299310 V	0.300690 V	8.90 e-06 V	-0,000073 V	10.6%	Pass
Test @ 1.5V DC								
Channel 1	1.500000 V	1.499777 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000223 V	24%	Pass
Channel 2	1.500000 V	1.499790 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000210 V	22.6%	Pass
Channel 3	1.500000 V	1.499860 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000140 V	15.1%	Pass
Channel 4	1.500000 V	1.499810 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000190 V	20.4%	Pass
Channel 5	1.500000 V	1.499940 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000060 V	6.45%	Pass
Channel 6	1.500000 V	1.499650 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000350 V	37.6%	Pass
Channel 7	1.500000 V	1.499840 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000160 V	17.2%	Pass
Channel 8	1.500000 V	1.499830 V	1.499070 V	1.500930 V	24.00 e-06 V	-0,000170 V	18.3%	Pass
Test @ 2.7V DC								
Channel 1	2.700000 V	2.699670 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000330 V	28.2%	Pass
Channel 2	2.700000 V	2.699703 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000297 V	25.4%	Pass
Channel 3	2.700000 V	2.699750 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000250 V	21.4%	Pass
Channel 4	2.700000 V	2.699730 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000270 V	23.1%	Pass
Channel 5	2.700000 V	2.699840 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000160 V	13.7%	Pass
Channel 6	2.700000 V	2.699530 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000470 V	40.2%	Pass
Channel 7	2.700000 V	2.699770 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000230 V	19.7%	Pass
Channel 8	2.700000 V	2.699760 V	2.698830 V	2.701170 V	41.00 e-06 V	-0,000240 V	20.5%	Pass
Test @ -2.7V DC								

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 1	-2.700000 V	-2.699800 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000200 V	17.1%	Pass
Channel 2	-2.700000 V	-2.699820 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000180 V	15.4%	Pass
Channel 3	-2.700000 V	-2.699710 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000290 V	24.8%	Pass
Channel 4	-2.700000 V	-2.699840 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000160 V	13.7%	Pass
Channel 5	-2.700000 V	-2.699630 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000370 V	31.6%	Pass
Channel 6	-2.700000 V	-2.699807 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000193 V	16.5%	Pass
Channel 7	-2.700000 V	-2.699850 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000150 V	12.8%	Pass
Channel 8	-2.700000 V	-2.699850 V	-2.701170 V	-2.698830 V	41.00 e-06 V	0,000150 V	12.8%	Pass
Test @ 2.1V_RMS @ 20Hz								
Channel 1	2.100000 V	2.099790 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000210 V	20%	Pass
Channel 2	2.100000 V	2.099810 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000190 V	18.1%	Pass
Channel 3	2.100000 V	2.099783 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000217 V	20.6%	Pass
Channel 4	2.100000 V	2.099830 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000170 V	16.2%	Pass
Channel 5	2.100000 V	2.099780 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000220 V	21%	Pass
Channel 6	2.100000 V	2.099740 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000260 V	24.8%	Pass
Channel 7	2.100000 V	2.099850 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000150 V	14.3%	Pass
Channel 8	2.100000 V	2.099840 V	2.098950 V	2.101050 V	840.00 e-06 V	-0,000160 V	15.2%	Pass
Test @ 2.1V_RMS @ 50Hz								
Channel 1	2.100000 V	2.099800 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000200 V	19%	Pass
Channel 2	2.100000 V	2.099830 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000170 V	16.2%	Pass
Channel 3	2.100000 V	2.099800 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000200 V	19%	Pass
Channel 4	2.100000 V	2.099840 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000160 V	15.2%	Pass
Channel 5	2.100000 V	2.099800 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000200 V	19%	Pass
Channel 6	2.100000 V	2.099757 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000243 V	23.2%	Pass
Channel 7	2.100000 V	2.099860 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000140 V	13.3%	Pass
Channel 8	2.100000 V	2.099860 V	2.098950 V	2.101050 V	470.00 e-06 V	-0,000140 V	13.3%	Pass
Test @ 2.1V_RMS @ 1000Hz								
Channel 1	2.100000 V	2.099520 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000480 V	45.7%	Pass
Channel 2	2.100000 V	2.099530 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000470 V	44.8%	Pass
Channel 3	2.100000 V	2.099510 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000490 V	46.7%	Pass
Channel 4	2.100000 V	2.099550 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000450 V	42.9%	Pass
Channel 5	2.100000 V	2.099500 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000500 V	47.6%	Pass
Channel 6	2.100000 V	2.099460 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000540 V	51.4%	Pass
Channel 7	2.100000 V	2.099567 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000433 V	41.3%	Pass
Channel 8	2.100000 V	2.099570 V	2.098950 V	2.101050 V	630.00 e-06 V	-0,000430 V	41%	Pass
Range: 10V								
################################								
Test @ 1V DC								
Channel 1	1.000000 V	0.999827 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000173 V	7.77%	Pass
Channel 2	1.000000 V	0.999855 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000145 V	6.49%	Pass
Channel 3	1.000000 V	1.000093 V	0.997770 V	1.002230 V	17.00 e-06 V	0,000093 V	4.19%	Pass
Channel 4	1.000000 V	0.999883 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000117 V	5.26%	Pass
Channel 5	1.000000 V	1.000310 V	0.997770 V	1.002230 V	17.00 e-06 V	0,000310 V	13.9%	Pass
Channel 6	1.000000 V	0.999517 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000483 V	21.7%	Pass
Channel 7	1.000000 V	0.999914 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000086 V	3.84%	Pass
Channel 8	1.000000 V	0.999923 V	0.997770 V	1.002230 V	17.00 e-06 V	-0,000077 V	3.44%	Pass
Test @ -1V DC								
Channel 1	-1.000000 V	-0.999920 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000080 V	3.57%	Pass
Channel 2	-1.000000 V	-0.999950 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000050 V	2.24%	Pass
Channel 3	-1.000000 V	-0.999650 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000350 V	15.7%	Pass
Channel 4	-1.000000 V	-0.999891 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000109 V	4.87%	Pass
Channel 5	-1.000000 V	-0.999426 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000574 V	25.7%	Pass
Channel 6	-1.000000 V	-1.000200 V	-1.002230 V	-0.997770 V	17.00 e-06 V	-0,000200 V	8.97%	Pass
Channel 7	-1.000000 V	-0.999878 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000122 V	5.49%	Pass
Channel 8	-1.000000 V	-0.999891 V	-1.002230 V	-0.997770 V	17.00 e-06 V	0,000109 V	4.87%	Pass
Test @ 3V DC								
Channel 1	3.000000 V	2.999537 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000463 V	17.6%	Pass
Channel 2	3.000000 V	2.999610 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000390 V	14.8%	Pass
Channel 3	3.000000 V	2.999787 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000213 V	8.11%	Pass
Channel 4	3.000000 V	2.999610 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000390 V	14.8%	Pass
Channel 5	3.000000 V	2.999990 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000010 V	0.38%	Pass
Channel 6	3.000000 V	2.999170 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000830 V	31.6%	Pass
Channel 7	3.000000 V	2.999660 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000340 V	12.9%	Pass
Channel 8	3.000000 V	2.999680 V	2.997370 V	3.002630 V	45.00 e-06 V	-0,000320 V	12.2%	Pass
Test @ 5V DC								
Channel 1	5.000000 V	4.999267 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000733 V	24.2%	Pass
Channel 2	5.000000 V	4.999400 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000600 V	19.8%	Pass
Channel 3	5.000000 V	4.999503 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000497 V	16.4%	Pass
Channel 4	5.000000 V	4.999360 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000640 V	21.1%	Pass
Channel 5	5.000000 V	4.999703 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000297 V	9.79%	Pass
Channel 6	5.000000 V	4.998860 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,001140 V	37.6%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 7	5.000000 V	4.999437 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000563 V	18.6%	Pass
Channel 8	5.000000 V	4.999457 V	4.996970 V	5.003030 V	110.00 e-06 V	-0,000543 V	17.9%	Pass
Test @ -5V DC								
Channel 1	-5.000000 V	-4.999457 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000543 V	17.9%	Pass
Channel 2	-5.000000 V	-4.999597 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000403 V	13.3%	Pass
Channel 3	-5.000000 V	-4.999203 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000797 V	26.3%	Pass
Channel 4	-5.000000 V	-4.999500 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000500 V	16.5%	Pass
Channel 5	-5.000000 V	-4.998963 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,001037 V	34.2%	Pass
Channel 6	-5.000000 V	-4.999650 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000350 V	11.6%	Pass
Channel 7	-5.000000 V	-4.999493 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000507 V	16.7%	Pass
Channel 8	-5.000000 V	-4.999550 V	-5.003030 V	-4.996970 V	110.00 e-06 V	0,000450 V	14.9%	Pass
Test @ 7V DC								
Channel 1	7.000000 V	6.999073 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000927 V	27%	Pass
Channel 2	7.000000 V	6.999243 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000757 V	22.1%	Pass
Channel 3	7.000000 V	6.999270 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000730 V	21.3%	Pass
Channel 4	7.000000 V	6.999170 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000830 V	24.2%	Pass
Channel 5	7.000000 V	6.999463 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000537 V	15.6%	Pass
Channel 6	7.000000 V	6.998627 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,001373 V	40%	Pass
Channel 7	7.000000 V	6.999270 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000730 V	21.3%	Pass
Channel 8	7.000000 V	6.999310 V	6.996570 V	7.003430 V	140.00 e-06 V	-0,000690 V	20.1%	Pass
Test @ 9V DC								
Channel 1	9.000000 V	8.998970 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,001030 V	26.9%	Pass
Channel 2	9.000000 V	8.999207 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000793 V	20.7%	Pass
Channel 3	9.000000 V	8.999167 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000833 V	21.8%	Pass
Channel 4	9.000000 V	8.999083 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000917 V	23.9%	Pass
Channel 5	9.000000 V	8.999353 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000647 V	16.9%	Pass
Channel 6	9.000000 V	8.998507 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,001493 V	39%	Pass
Channel 7	9.000000 V	8.999213 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000787 V	20.5%	Pass
Channel 8	9.000000 V	8.999277 V	8.996170 V	9.003830 V	170.00 e-06 V	-0,000723 V	18.9%	Pass
Test @ -9V DC								
Channel 1	-9.000000 V	-8.999347 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000653 V	17.1%	Pass
Channel 2	-9.000000 V	-8.999540 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000460 V	12%	Pass
Channel 3	-9.000000 V	-8.999073 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000927 V	24.2%	Pass
Channel 4	-9.000000 V	-8.999440 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000560 V	14.6%	Pass
Channel 5	-9.000000 V	-8.998823 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,001177 V	30.7%	Pass
Channel 6	-9.000000 V	-8.999420 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000580 V	15.1%	Pass
Channel 7	-9.000000 V	-8.999437 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000563 V	14.7%	Pass
Channel 8	-9.000000 V	-8.999560 V	-9.003830 V	-8.996170 V	170.00 e-06 V	0,000440 V	11.5%	Pass
Test @ 1V_RMS @ 20Hz								
Channel 1	1.000000 V	0.999889 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000111 V	4.96%	Pass
Channel 2	1.000000 V	0.999917 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000083 V	3.74%	Pass
Channel 3	1.000000 V	0.999881 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000119 V	5.35%	Pass
Channel 4	1.000000 V	0.999902 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000098 V	4.39%	Pass
Channel 5	1.000000 V	0.999880 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000120 V	5.4%	Pass
Channel 6	1.000000 V	0.999875 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000125 V	5.61%	Pass
Channel 7	1.000000 V	0.999914 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000086 V	3.87%	Pass
Channel 8	1.000000 V	0.999921 V	0.997770 V	1.002230 V	430.00 e-06 V	-0,000079 V	3.53%	Pass
Test @ 1V_RMS @ 50Hz								
Channel 1	1.000000 V	0.999893 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000107 V	4.81%	Pass
Channel 2	1.000000 V	0.999922 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000078 V	3.5%	Pass
Channel 3	1.000000 V	0.999887 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000113 V	5.05%	Pass
Channel 4	1.000000 V	0.999906 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000094 V	4.22%	Pass
Channel 5	1.000000 V	0.999882 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000118 V	5.29%	Pass
Channel 6	1.000000 V	0.999877 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000123 V	5.52%	Pass
Channel 7	1.000000 V	0.999918 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000082 V	3.66%	Pass
Channel 8	1.000000 V	0.999925 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000075 V	3.35%	Pass
Test @ 1V_RMS @ 1000Hz								
Channel 1	1.000000 V	0.999776 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000224 V	10%	Pass
Channel 2	1.000000 V	0.999804 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000196 V	8.79%	Pass
Channel 3	1.000000 V	0.999767 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000233 V	10.5%	Pass
Channel 4	1.000000 V	0.999787 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000213 V	9.55%	Pass
Channel 5	1.000000 V	0.999761 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000239 V	10.7%	Pass
Channel 6	1.000000 V	0.999757 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000243 V	10.9%	Pass
Channel 7	1.000000 V	0.999794 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000206 V	9.22%	Pass
Channel 8	1.000000 V	0.999805 V	0.997770 V	1.002230 V	260.00 e-06 V	-0,000195 V	8.74%	Pass
Test @ 5V_RMS @ 20Hz								
Channel 1	5.000000 V	4.999483 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000517 V	17.1%	Pass
Channel 2	5.000000 V	4.999610 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000390 V	12.9%	Pass
Channel 3	5.000000 V	4.999453 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000547 V	18%	Pass
Channel 4	5.000000 V	4.999543 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000457 V	15.1%	Pass
Channel 5	5.000000 V	4.999447 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000553 V	18.3%	Pass
Channel 6	5.000000 V	4.999390 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000610 V	20.1%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 7	5.000000 V	4.999597 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000403 V	13.3%	Pass
Channel 8	5.000000 V	4.999630 V	4.996970 V	5.003030 V	3.20 e-03 V	-0,000370 V	12.2%	Pass
Test @ 5V_RMS @ 50Hz								
Channel 1	5.000000 V	4.999557 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000443 V	14.6%	Pass
Channel 2	5.000000 V	4.999687 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000313 V	10.3%	Pass
Channel 3	5.000000 V	4.999540 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000460 V	15.2%	Pass
Channel 4	5.000000 V	4.999640 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000360 V	11.9%	Pass
Channel 5	5.000000 V	4.999540 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000460 V	15.2%	Pass
Channel 6	5.000000 V	4.999477 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000523 V	17.3%	Pass
Channel 7	5.000000 V	4.999680 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000320 V	10.6%	Pass
Channel 8	5.000000 V	4.999717 V	4.996970 V	5.003030 V	1.70 e-03 V	-0,000283 V	9.35%	Pass
Test @ 5V_RMS @ 1000Hz								
Channel 1	5.000000 V	4.998630 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001370 V	45.2%	Pass
Channel 2	5.000000 V	4.998747 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001253 V	41.4%	Pass
Channel 3	5.000000 V	4.998603 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001397 V	46.1%	Pass
Channel 4	5.000000 V	4.998713 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001287 V	42.5%	Pass
Channel 5	5.000000 V	4.998593 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001407 V	46.4%	Pass
Channel 6	5.000000 V	4.998533 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001467 V	48.4%	Pass
Channel 7	5.000000 V	4.998743 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001257 V	41.5%	Pass
Channel 8	5.000000 V	4.998793 V	4.996970 V	5.003030 V	1.10 e-03 V	-0,001207 V	39.8%	Pass
Test @ 7V_RMS @ 20Hz								
Channel 1	7.000000 V	6.999427 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000573 V	16.7%	Pass
Channel 2	7.000000 V	6.999590 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000410 V	12%	Pass
Channel 3	7.000000 V	6.999380 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000620 V	18.1%	Pass
Channel 4	7.000000 V	6.999490 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000510 V	14.9%	Pass
Channel 5	7.000000 V	6.999360 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000640 V	18.7%	Pass
Channel 6	7.000000 V	6.999277 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000723 V	21.1%	Pass
Channel 7	7.000000 V	6.999540 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000460 V	13.4%	Pass
Channel 8	7.000000 V	6.999583 V	6.996570 V	7.003430 V	4.10 e-03 V	-0,000417 V	12.1%	Pass
Test @ 7V_RMS @ 50Hz								
Channel 1	7.000000 V	6.999370 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000630 V	18.4%	Pass
Channel 2	7.000000 V	6.999557 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000443 V	12.9%	Pass
Channel 3	7.000000 V	6.999353 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000647 V	18.9%	Pass
Channel 4	7.000000 V	6.999460 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000540 V	15.7%	Pass
Channel 5	7.000000 V	6.999323 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000677 V	19.7%	Pass
Channel 6	7.000000 V	6.999260 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000740 V	21.6%	Pass
Channel 7	7.000000 V	6.999527 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000473 V	13.8%	Pass
Channel 8	7.000000 V	6.999607 V	6.996570 V	7.003430 V	2.10 e-03 V	-0,000393 V	11.5%	Pass
Test @ 7V_RMS @ 1000Hz								
Channel 1	7.000000 V	6.998170 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001830 V	53.4%	Pass
Channel 2	7.000000 V	6.998343 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001657 V	48.3%	Pass
Channel 3	7.000000 V	6.998120 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001880 V	54.8%	Pass
Channel 4	7.000000 V	6.998253 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001747 V	50.9%	Pass
Channel 5	7.000000 V	6.998103 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001897 V	55.3%	Pass
Channel 6	7.000000 V	6.998020 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001980 V	57.7%	Pass
Channel 7	7.000000 V	6.998297 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001703 V	49.7%	Pass
Channel 8	7.000000 V	6.998387 V	6.996570 V	7.003430 V	1.50 e-03 V	-0,001613 V	47%	Pass
Test @ 7V_RMS @ 10000Hz								
Channel 1	7.000000 V	6.970673 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029327 V	40.7%	Pass
Channel 2	7.000000 V	6.970677 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029323 V	40.7%	Pass
Channel 3	7.000000 V	6.970340 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029660 V	41.2%	Pass
Channel 4	7.000000 V	6.970837 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029163 V	40.5%	Pass
Channel 5	7.000000 V	6.970317 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029683 V	41.2%	Pass
Channel 6	7.000000 V	6.970147 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029853 V	41.4%	Pass
Channel 7	7.000000 V	6.970230 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029770 V	41.3%	Pass
Channel 8	7.000000 V	6.970927 V	6.927970 V	7.072030 V	1.50 e-03 V	-0,029073 V	40.4%	Pass
Test @ 7V_RMS @ 20000Hz								
Channel 1	7.000000 V	6.909177 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,090823 V	25.8%	Pass
Channel 2	7.000000 V	6.908723 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,091277 V	25.9%	Pass
Channel 3	7.000000 V	6.907880 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,092120 V	26.2%	Pass
Channel 4	7.000000 V	6.909493 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,090507 V	25.7%	Pass
Channel 5	7.000000 V	6.908120 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,091880 V	26.1%	Pass
Channel 6	7.000000 V	6.907940 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,092060 V	26.2%	Pass
Channel 7	7.000000 V	6.907503 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,092497 V	26.3%	Pass
Channel 8	7.000000 V	6.909460 V	6.647970 V	7.352030 V	1.50 e-03 V	-0,090540 V	25.7%	Pass
Range: 30V								
################################								
Test @ 3V DC								
Channel 1	3.000000 V	3.000200 V	2.990400 V	3.009600 V	45.00 e-06 V	0,000200 V	2.08%	Pass
Channel 2	3.000000 V	2.999913 V	2.990400 V	3.009600 V	45.00 e-06 V	-0,000087 V	0.903%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 3	3.000000 V	3.000380 V	2.990400 V	3.009600 V	45.00 e-06 V	0,000380 V	3.96%	Pass
Channel 4	3.000000 V	3.000123 V	2.990400 V	3.009600 V	45.00 e-06 V	0,000123 V	1.28%	Pass
Channel 5	3.000000 V	3.001377 V	2.990400 V	3.009600 V	45.00 e-06 V	0,001377 V	14.3%	Pass
Channel 6	3.000000 V	2.999073 V	2.990400 V	3.009600 V	45.00 e-06 V	-0,000927 V	9.65%	Pass
Channel 7	3.000000 V	2.999560 V	2.990400 V	3.009600 V	45.00 e-06 V	-0,000440 V	4.58%	Pass
Channel 8	3.000000 V	2.999847 V	2.990400 V	3.009600 V	45.00 e-06 V	-0,000153 V	1.6%	Pass
Test @ 15V DC								
Channel 1	15.000000 V	14.998900 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001100 V	9.17%	Pass
Channel 2	15.000000 V	14.998600 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001400 V	11.7%	Pass
Channel 3	15.000000 V	14.999000 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001000 V	8.33%	Pass
Channel 4	15.000000 V	14.998700 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001300 V	10.8%	Pass
Channel 5	15.000000 V	14.999700 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,000300 V	2.5%	Pass
Channel 6	15.000000 V	14.997367 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,002633 V	21.9%	Pass
Channel 7	15.000000 V	14.998500 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001500 V	12.5%	Pass
Channel 8	15.000000 V	14.998867 V	14.988000 V	15.012000 V	270.00 e-06 V	-0,001133 V	9.44%	Pass
Test @ 27V DC								
Channel 1	27.000000 V	26.997933 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,002067 V	14.4%	Pass
Channel 2	27.000000 V	26.997900 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,002100 V	14.6%	Pass
Channel 3	27.000000 V	26.997800 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,002200 V	15.3%	Pass
Channel 4	27.000000 V	26.997700 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,002300 V	16%	Pass
Channel 5	27.000000 V	26.998367 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,001633 V	11.3%	Pass
Channel 6	27.000000 V	26.996100 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,003900 V	27.1%	Pass
Channel 7	27.000000 V	26.997800 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,002200 V	15.3%	Pass
Channel 8	27.000000 V	26.998267 V	26.985600 V	27.014400 V	460.00 e-06 V	-0,001733 V	12%	Pass
Test @ -27V DC								
Channel 1	-27.000000 V	-26.997800 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,002200 V	15.3%	Pass
Channel 2	-27.000000 V	-26.998200 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,001800 V	12.5%	Pass
Channel 3	-27.000000 V	-26.997367 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,002633 V	18.3%	Pass
Channel 4	-27.000000 V	-26.997800 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,002200 V	15.3%	Pass
Channel 5	-27.000000 V	-26.995800 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,004200 V	29.2%	Pass
Channel 6	-27.000000 V	-26.998000 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,002000 V	13.9%	Pass
Channel 7	-27.000000 V	-26.999000 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,001000 V	6.94%	Pass
Channel 8	-27.000000 V	-26.999200 V	-27.014400 V	-26.985600 V	460.00 e-06 V	0,000800 V	5.56%	Pass
Test @ 21V_RMS @ 20Hz								
Channel 1	21.000000 V	20.998500 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,001500 V	11.4%	Pass
Channel 2	21.000000 V	20.998600 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,001400 V	10.6%	Pass
Channel 3	21.000000 V	20.998233 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,001767 V	13.4%	Pass
Channel 4	21.000000 V	20.998400 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,001600 V	12.1%	Pass
Channel 5	21.000000 V	20.997800 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,002200 V	16.7%	Pass
Channel 6	21.000000 V	20.997833 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,002167 V	16.4%	Pass
Channel 7	21.000000 V	20.998833 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,001167 V	8.84%	Pass
Channel 8	21.000000 V	20.999100 V	20.986800 V	21.013200 V	10.00 e-03 V	-0,000900 V	6.82%	Pass
Test @ 21V_RMS @ 50Hz								
Channel 1	21.000000 V	20.998633 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,001367 V	10.4%	Pass
Channel 2	21.000000 V	20.998733 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,001267 V	9.6%	Pass
Channel 3	21.000000 V	20.998333 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,001667 V	12.6%	Pass
Channel 4	21.000000 V	20.998500 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,001500 V	11.4%	Pass
Channel 5	21.000000 V	20.997900 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,002100 V	15.9%	Pass
Channel 6	21.000000 V	20.997900 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,002100 V	15.9%	Pass
Channel 7	21.000000 V	20.999000 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,001000 V	7.58%	Pass
Channel 8	21.000000 V	20.999233 V	20.986800 V	21.013200 V	4.70 e-03 V	-0,000767 V	5.81%	Pass
Test @ 21V_RMS @ 1000Hz								
Channel 1	21.000000 V	20.992400 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,007600 V	57.6%	Pass
Channel 2	21.000000 V	20.994967 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,005033 V	38.1%	Pass
Channel 3	21.000000 V	20.994400 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,005600 V	42.4%	Pass
Channel 4	21.000000 V	20.995733 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,004267 V	32.3%	Pass
Channel 5	21.000000 V	20.994300 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,005700 V	43.2%	Pass
Channel 6	21.000000 V	20.994900 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,005100 V	38.6%	Pass
Channel 7	21.000000 V	20.996000 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,004000 V	30.3%	Pass
Channel 8	21.000000 V	20.996467 V	20.986800 V	21.013200 V	8.00 e-03 V	-0,003533 V	26.8%	Pass
Range: 100V								
##############################								
Test @ 10V DC								
Channel 1	10.000000 V	9.999330 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,000670 V	2.68%	Pass
Channel 2	10.000000 V	9.999043 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,000957 V	3.83%	Pass
Channel 3	10.000000 V	10.001467 V	9.975000 V	10.025000 V	190.00 e-06 V	0,001467 V	5.87%	Pass
Channel 4	10.000000 V	9.999433 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,000567 V	2.27%	Pass
Channel 5	10.000000 V	10.003500 V	9.975000 V	10.025000 V	190.00 e-06 V	0,003500 V	14%	Pass
Channel 6	10.000000 V	9.995673 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,004327 V	17.3%	Pass
Channel 7	10.000000 V	9.999113 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,000887 V	3.55%	Pass
Channel 8	10.000000 V	9.999473 V	9.975000 V	10.025000 V	190.00 e-06 V	-0,000527 V	2.11%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Test @ 50V DC								
Channel 1	50.000000 V	49.994933 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,005067 V	15.4%	Pass
Channel 2	50.000000 V	49.994667 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,005333 V	16.2%	Pass
Channel 3	50.000000 V	49.996367 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,003633 V	11%	Pass
Channel 4	50.000000 V	49.994533 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,005467 V	16.6%	Pass
Channel 5	50.000000 V	49.997233 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,002767 V	8.38%	Pass
Channel 6	50.000000 V	49.989600 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,010400 V	31.5%	Pass
Channel 7	50.000000 V	49.994967 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,005033 V	15.3%	Pass
Channel 8	50.000000 V	49.995767 V	49.967000 V	50.033000 V	1.50 e-03 V	-0,004233 V	12.8%	Pass
Test @ 90V DC								
Channel 1	90.000000 V	89.991967 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,008033 V	19.6%	Pass
Channel 2	90.000000 V	89.991667 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,008333 V	20.3%	Pass
Channel 3	90.000000 V	89.992700 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,007300 V	17.8%	Pass
Channel 4	90.000000 V	89.991000 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,009000 V	22%	Pass
Channel 5	90.000000 V	89.992667 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,007333 V	17.9%	Pass
Channel 6	90.000000 V	89.985367 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,014633 V	35.7%	Pass
Channel 7	90.000000 V	89.992367 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,007633 V	18.6%	Pass
Channel 8	90.000000 V	89.993367 V	89.959000 V	90.041000 V	2.40 e-03 V	-0,006633 V	16.2%	Pass
Test @ -90V DC								
Channel 1	-90.000000 V	-89.993833 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,006167 V	15%	Pass
Channel 2	-90.000000 V	-89.994033 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,005967 V	14.6%	Pass
Channel 3	-90.000000 V	-89.990867 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,009133 V	22.3%	Pass
Channel 4	-90.000000 V	-89.993133 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,006867 V	16.7%	Pass
Channel 5	-90.000000 V	-89.985867 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,014133 V	34.5%	Pass
Channel 6	-90.000000 V	-89.994033 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,005967 V	14.6%	Pass
Channel 7	-90.000000 V	-89.994967 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,005033 V	12.3%	Pass
Channel 8	-90.000000 V	-89.996033 V	-90.041000 V	-89.959000 V	2.40 e-03 V	0,003967 V	9.67%	Pass
Test @ 70V RMS @ 50Hz								
Channel 1	70.000000 V	69.995833 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,004167 V	11.3%	Pass
Channel 2	70.000000 V	69.995967 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,004033 V	10.9%	Pass
Channel 3	70.000000 V	69.995067 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,004933 V	13.3%	Pass
Channel 4	70.000000 V	69.995200 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,004800 V	13%	Pass
Channel 5	70.000000 V	69.992900 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,007100 V	19.2%	Pass
Channel 6	70.000000 V	69.993267 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,006733 V	18.2%	Pass
Channel 7	70.000000 V	69.996333 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,003667 V	9.91%	Pass
Channel 8	70.000000 V	69.997167 V	69.963000 V	70.037000 V	19.00 e-03 V	-0,002833 V	7.66%	Pass
Test @ 70V RMS @ 1000Hz								
Channel 1	70.000000 V	69.977600 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,022400 V	60.5%	Pass
Channel 2	70.000000 V	69.985100 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,014900 V	40.3%	Pass
Channel 3	70.000000 V	69.982467 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,017533 V	47.4%	Pass
Channel 4	70.000000 V	69.985833 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,014167 V	38.3%	Pass
Channel 5	70.000000 V	69.983367 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,016633 V	45%	Pass
Channel 6	70.000000 V	69.984200 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,015800 V	42.7%	Pass
Channel 7	70.000000 V	69.986933 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,013067 V	35.3%	Pass
Channel 8	70.000000 V	69.987500 V	69.963000 V	70.037000 V	21.00 e-03 V	-0,012500 V	33.8%	Pass
Range: 400V								
##############################								
Test @ 40V DC								
Channel 1	40.000000 V	39.995467 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,004533 V	4.98%	Pass
Channel 2	40.000000 V	39.995533 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,004467 V	4.91%	Pass
Channel 3	40.000000 V	40.003433 V	39.909000 V	40.091000 V	1.20 e-03 V	0,003433 V	3.77%	Pass
Channel 4	40.000000 V	39.995867 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,004133 V	4.54%	Pass
Channel 5	40.000000 V	40.009467 V	39.909000 V	40.091000 V	1.20 e-03 V	0,009467 V	10.4%	Pass
Channel 6	40.000000 V	39.983433 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,016567 V	18.2%	Pass
Channel 7	40.000000 V	39.997300 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,002700 V	2.97%	Pass
Channel 8	40.000000 V	39.997400 V	39.909000 V	40.091000 V	1.20 e-03 V	-0,002600 V	2.86%	Pass
Test @ 200V DC								
Channel 1	200.000000 V	199.974000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,026000 V	21.1%	Pass
Channel 2	200.000000 V	199.975000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,025000 V	20.3%	Pass
Channel 3	200.000000 V	199.979000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,021000 V	17.1%	Pass
Channel 4	200.000000 V	199.974000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,026000 V	21.1%	Pass
Channel 5	200.000000 V	199.983000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,017000 V	13.8%	Pass
Channel 6	200.000000 V	199.956000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,044000 V	35.8%	Pass
Channel 7	200.000000 V	199.979000 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,021000 V	17.1%	Pass
Channel 8	200.000000 V	199.978333 V	199.877000 V	200.123000 V	5.20 e-03 V	-0,021667 V	17.6%	Pass
Test @ 360V DC								
Channel 1	360.000000 V	359.966000 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,034000 V	21.9%	Pass
Channel 2	360.000000 V	359.969000 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,031000 V	20%	Pass
Channel 3	360.000000 V	359.970333 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,029667 V	19.1%	Pass
Channel 4	360.000000 V	359.966000 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,034000 V	21.9%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 5	360.000000 V	359.971333 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,028667 V	18.5%	Pass
Channel 6	360.000000 V	359.946000 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,054000 V	34.8%	Pass
Channel 7	360.000000 V	359.975333 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,024667 V	15.9%	Pass
Channel 8	360.000000 V	359.975000 V	359.845000 V	360.155000 V	9.80 e-03 V	-0,025000 V	16.1%	Pass
Test @ -360V DC								
Channel 1	-360.000000 V	-359.977000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,023000 V	14.8%	Pass
Channel 2	-360.000000 V	-359.979667 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,020333 V	13.1%	Pass
Channel 3	-360.000000 V	-359.966000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,034000 V	21.9%	Pass
Channel 4	-360.000000 V	-359.976000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,024000 V	15.5%	Pass
Channel 5	-360.000000 V	-359.953333 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,046667 V	30.1%	Pass
Channel 6	-360.000000 V	-359.978000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,022000 V	14.2%	Pass
Channel 7	-360.000000 V	-359.984000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,016000 V	10.3%	Pass
Channel 8	-360.000000 V	-359.984000 V	-360.155000 V	-359.845000 V	9.80 e-03 V	0,016000 V	10.3%	Pass
Test @ 280V RMS @ 50Hz								
Channel 1	280.000000 V	279.978000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,022000 V	15.8%	Pass
Channel 2	280.000000 V	279.983000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,017000 V	12.2%	Pass
Channel 3	280.000000 V	279.977000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,023000 V	16.5%	Pass
Channel 4	280.000000 V	279.980000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,020000 V	14.4%	Pass
Channel 5	280.000000 V	279.972667 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,027333 V	19.7%	Pass
Channel 6	280.000000 V	279.971000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,029000 V	20.9%	Pass
Channel 7	280.000000 V	279.986000 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,014000 V	10.1%	Pass
Channel 8	280.000000 V	279.984667 V	279.861000 V	280.139000 V	69.00 e-03 V	-0,015333 V	11%	Pass
Test @ 280V RMS @ 1000Hz								
Channel 1	280.000000 V	279.944333 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,055667 V	40%	Pass
Channel 2	280.000000 V	279.976667 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,023333 V	16.8%	Pass
Channel 3	280.000000 V	279.963000 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,037000 V	26.6%	Pass
Channel 4	280.000000 V	279.977000 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,023000 V	16.5%	Pass
Channel 5	280.000000 V	279.974000 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,026000 V	18.7%	Pass
Channel 6	280.000000 V	279.973333 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,026667 V	19.2%	Pass
Channel 7	280.000000 V	279.986333 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,013667 V	9.83%	Pass
Channel 8	280.000000 V	279.983000 V	279.861000 V	280.139000 V	220.00 e-03 V	-0,017000 V	12.2%	Pass
Range: 1000V								
##############################								
Test @ 100V DC								
Channel 1	100.000000 V	99.989633 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,010367 V	4.65%	Pass
Channel 2	100.000000 V	99.988500 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,011500 V	5.16%	Pass
Channel 3	100.000000 V	100.015000 V	99.777000 V	100.223000 V	2.70 e-03 V	0,015000 V	6.73%	Pass
Channel 4	100.000000 V	99.990133 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,009867 V	4.42%	Pass
Channel 5	100.000000 V	100.033000 V	99.777000 V	100.223000 V	2.70 e-03 V	0,033000 V	14.8%	Pass
Channel 6	100.000000 V	99.951533 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,048467 V	21.7%	Pass
Channel 7	100.000000 V	99.993000 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,007000 V	3.14%	Pass
Channel 8	100.000000 V	99.995533 V	99.777000 V	100.223000 V	2.70 e-03 V	-0,004467 V	2%	Pass
Test @ 500V DC								
Channel 1	500.000000 V	499.948667 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,051333 V	16.9%	Pass
Channel 2	500.000000 V	499.954000 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,046000 V	15.2%	Pass
Channel 3	500.000000 V	499.969333 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,030667 V	10.1%	Pass
Channel 4	500.000000 V	499.945667 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,054333 V	17.9%	Pass
Channel 5	500.000000 V	499.983333 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,016667 V	5.5%	Pass
Channel 6	500.000000 V	499.899667 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,100333 V	33.1%	Pass
Channel 7	500.000000 V	499.955333 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,044667 V	14.7%	Pass
Channel 8	500.000000 V	499.965000 V	499.697000 V	500.303000 V	13.00 e-03 V	-0,035000 V	11.6%	Pass
Test @ 900V DC								
Channel 1	900.000000 V	899.959333 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,040667 V	10.6%	Pass
Channel 2	900.000000 V	899.977000 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,023000 V	6.01%	Pass
Channel 3	900.000000 V	899.983000 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,017000 V	4.44%	Pass
Channel 4	900.000000 V	899.957000 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,043000 V	11.2%	Pass
Channel 5	900.000000 V	899.993667 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,006333 V	1.65%	Pass
Channel 6	900.000000 V	899.909000 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,091000 V	23.8%	Pass
Channel 7	900.000000 V	899.979667 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,020333 V	5.31%	Pass
Channel 8	900.000000 V	899.995000 V	899.617000 V	900.383000 V	23.00 e-03 V	-0,005000 V	1.31%	Pass
Test @ -900V DC								
Channel 1	-900.000000 V	-899.981333 V	-900.383000 V	-899.617000 V	23.00 e-03 V	0,018667 V	4.87%	Pass
Channel 2	-900.000000 V	-900.003667 V	-900.383000 V	-899.617000 V	23.00 e-03 V	-0,003667 V	0.957%	Pass
Channel 3	-900.000000 V	-899.962000 V	-900.383000 V	-899.617000 V	23.00 e-03 V	0,038000 V	9.92%	Pass
Channel 4	-900.000000 V	-899.981667 V	-900.383000 V	-899.617000 V	23.00 e-03 V	0,018333 V	4.79%	Pass
Channel 5	-900.000000 V	-899.932667 V	-900.383000 V	-899.617000 V	23.00 e-03 V	0,067333 V	17.6%	Pass
Channel 6	-900.000000 V	-900.005000 V	-900.383000 V	-899.617000 V	23.00 e-03 V	-0,005000 V	1.31%	Pass
Channel 7	-900.000000 V	-899.999667 V	-900.383000 V	-899.617000 V	23.00 e-03 V	0,000333 V	0.087%	Pass
Channel 8	-900.000000 V	-900.017667 V	-900.383000 V	-899.617000 V	23.00 e-03 V	-0,017667 V	4.61%	Pass
Test @ 700V RMS @ 50Hz								

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
Channel 1	700.000000 V	699.980333 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,019667 V	5.73%	Pass	
Channel 2	700.000000 V	699.997000 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,003000 V	0.875%	Pass	
Channel 3	700.000000 V	699.980333 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,019667 V	5.73%	Pass	
Channel 4	700.000000 V	699.976000 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,024000 V	7%	Pass	
Channel 5	700.000000 V	699.969667 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,030333 V	8.84%	Pass	
Channel 6	700.000000 V	699.966000 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,034000 V	9.91%	Pass	
Channel 7	700.000000 V	699.992333 V	699.657000 V	700.343000 V	270.00 e-03 V	-0,007667 V	2.24%	Pass	
Channel 8	700.000000 V	700.004000 V	699.657000 V	700.343000 V	270.00 e-03 V	0,004000 V	1.17%	Pass	
Test @ 700V_RMS @ 1000Hz									
Channel 1	700.000000 V	699.848667 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,151333 V	44.1%	Pass	
Channel 2	700.000000 V	699.950000 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,050000 V	14.6%	Pass	
Channel 3	700.000000 V	699.911333 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,088667 V	25.9%	Pass	
Channel 4	700.000000 V	699.935000 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,065000 V	19%	Pass	
Channel 5	700.000000 V	699.952667 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,047333 V	13.8%	Pass	
Channel 6	700.000000 V	699.947000 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,053000 V	15.5%	Pass	
Channel 7	700.000000 V	699.965667 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,034333 V	10%	Pass	
Channel 8	700.000000 V	699.968333 V	699.657000 V	700.343000 V	520.00 e-03 V	-0,031667 V	9.23%	Pass	
non-accredited functional board tests									
CMRR Checks									
30V-Range @ 50Hz									
Channel 1 @ 50Hz CMRR								Pass	(1)
Channel 2 @ 50Hz CMRR								Pass	(1)
Channel 3 @ 50Hz CMRR								Pass	(1)
Channel 4 @ 50Hz CMRR								Pass	(1)
Channel 5 @ 50Hz CMRR								Pass	(1)
Channel 6 @ 50Hz CMRR								Pass	(1)
Channel 7 @ 50Hz CMRR								Pass	(1)
Channel 8 @ 50Hz CMRR								Pass	(1)
30V-Range @ 1kHz									
Channel 1 @ 1kHz CMRR								Pass	(1)
Channel 2 @ 1kHz CMRR								Pass	(1)
Channel 3 @ 1kHz CMRR								Pass	(1)
Channel 4 @ 1kHz CMRR								Pass	(1)
Channel 5 @ 1kHz CMRR								Pass	(1)
Channel 6 @ 1kHz CMRR								Pass	(1)
Channel 7 @ 1kHz CMRR								Pass	(1)
Channel 8 @ 1kHz CMRR								Pass	(1)
10V-Range @ 1kHz									
Channel 1 @ 1kHz CMRR								Pass	(1)
Channel 2 @ 1kHz CMRR								Pass	(1)
Channel 3 @ 1kHz CMRR								Pass	(1)
Channel 4 @ 1kHz CMRR								Pass	(1)
Channel 5 @ 1kHz CMRR								Pass	(1)
Channel 6 @ 1kHz CMRR								Pass	(1)
Channel 7 @ 1kHz CMRR								Pass	(1)
Channel 8 @ 1kHz CMRR								Pass	(1)
Hardware Check (Selftest)								Pass	(1)
35 °C @ BoardTemp	35. °C	31 °C	20 °C	50 °C		-4,00 °C	26.7%	Pass	(1)

Ende des Kalibrierscheines / *End of Calibration Certificate*