DEWETRON GmbH

Parkring 4
8074 Grambach
Austria

AAT2660492
Akkreditierung Austria 0632
21.09.2026

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*	8 Channel Data Acquisition
Hersteller *Manufacturer*	DEWETRON
Typ *Type*	TRION3-1820-MULTI
Herstellernummer *Serial number*	A1263197
Auftraggeber *Customer*	
Kalibriernummer *Order number*	AAT2660492
Anzahl der Seiten des Kalibrierscheines *Number of pages of the certificate*	14
Datum der Kalibrierung *Date of calibration*	21.09.2026

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*
	21.09.2026	Stefan Strohmaier	Roman Kogler

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AUSTRIA

Kalibrierschein nach ISO/IEC 17025
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1. Kalibriergegenstand / *Calibration object*

8 Channel Data Acquisition DEWETRON TRION3-1820-MULTI, S/N: A1263197

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-18xx-MULTI_Akkred, Rev. 2.11

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:*	23,7 °C +/- 1 °C
Rel. Luftfeuchte / *Rel. humidity:*	46 % +/- 10 %
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*

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: 40.5°C Calibrator: 26.6°C								
Kalibrierverfahren / calibration method: CAL-KV-01 Gleichspannung v1.0 2024-07-04.xlsx-02 CAL-KV-01_Gleichspannung_v1.0_2024-07-04.xlsx-05 CAL-KV-02_Wechselspannung_v1.0_2024-07-04.xlsx-02C CAL-KV-02_Wechselspannung_v1.0_2024-07-04.xlsx-04C CAL-KV-03 Gleichstromstärke v1.0 2024-07-04.xlsx-02C CAL-KV-03 Gleichstromstärke v1.0 2024-07-04.xlsx-07								
API version: 8.2.0.10435 Card type: TRION3-1820-MULTI-8-L0B Model version: 01100 Firmware version: 54 Board temperature: 44.25degC SN. of board: A1263197								
Excitation Voltage Calibration Accuracy: 0.03% of Value ±1.5mV								
Channel 1	0.5000 V	0.500011 V	0.498350 V	0.501650 V	6.90 e-06 V	0,000011 V	0.69%	Pass
Channel 1	1.0000 V	0.999943 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000057 V	3.17%	Pass
Channel 1	2.0000 V	1.999798 V	1.997900 V	2.002100 V	21.00 e-06 V	-0,000202 V	9.62%	Pass
Channel 1	5.0000 V	4.999803 V	4.997000 V	5.003000 V	46.00 e-06 V	-0,000197 V	6.55%	Pass
Channel 1	10.0000 V	10.000017 V	9.995500 V	10.004500 V	87.00 e-06 V	0,000017 V	0.368%	Pass
Channel 1	12.0000 V	11.999379 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,000621 V	12.2%	Pass
Channel 1	24.0000 V	24.000216 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000216 V	2.48%	Pass
Channel 2	0.5000 V	0.499962 V	0.498350 V	0.501650 V	6.90 e-06 V	-0,000038 V	2.31%	Pass
Channel 2	1.0000 V	0.999826 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000174 V	9.65%	Pass
Channel 2	2.0000 V	2.000111 V	1.997900 V	2.002100 V	21.00 e-06 V	0,000111 V	5.3%	Pass
Channel 2	5.0000 V	4.999935 V	4.997000 V	5.003000 V	46.00 e-06 V	-0,000065 V	2.16%	Pass
Channel 2	10.0000 V	9.999870 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000130 V	2.9%	Pass
Channel 2	12.0000 V	11.998849 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,001151 V	22.6%	Pass
Channel 2	24.0000 V	24.000663 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000663 V	7.63%	Pass
Channel 3	0.5000 V	0.499946 V	0.498350 V	0.501650 V	6.90 e-06 V	-0,000054 V	3.27%	Pass
Channel 3	1.0000 V	0.999965 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000035 V	1.92%	Pass
Channel 3	2.0000 V	2.000231 V	1.997900 V	2.002100 V	21.00 e-06 V	0,000231 V	11%	Pass
Channel 3	5.0000 V	5.000293 V	4.997000 V	5.003000 V	46.00 e-06 V	0,000293 V	9.78%	Pass
Channel 3	10.0000 V	9.999922 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000078 V	1.73%	Pass
Channel 3	12.0000 V	11.999544 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,000456 V	8.94%	Pass
Channel 3	24.0000 V	24.000448 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000448 V	5.15%	Pass
Channel 4	0.5000 V	0.499303 V	0.498350 V	0.501650 V	6.90 e-06 V	-0,000697 V	42.3%	Pass
Channel 4	1.0000 V	0.999855 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000145 V	8.06%	Pass
Channel 4	2.0000 V	2.000063 V	1.997900 V	2.002100 V	21.00 e-06 V	0,000063 V	3.02%	Pass
Channel 4	5.0000 V	5.000056 V	4.997000 V	5.003000 V	46.00 e-06 V	0,000056 V	1.87%	Pass
Channel 4	10.0000 V	9.999761 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000239 V	5.31%	Pass
Channel 4	12.0000 V	11.999634 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,000366 V	7.18%	Pass
Channel 4	24.0000 V	24.000481 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000481 V	5.53%	Pass
Channel 5	0.5000 V	0.500449 V	0.498350 V	0.501650 V	6.90 e-06 V	0,000449 V	27.2%	Pass
Channel 5	1.0000 V	1.000300 V	0.998200 V	1.001800 V	11.00 e-06 V	0,000300 V	16.7%	Pass
Channel 5	2.0000 V	1.999938 V	1.997900 V	2.002100 V	21.00 e-06 V	-0,000062 V	2.93%	Pass
Channel 5	5.0000 V	4.999960 V	4.997000 V	5.003000 V	46.00 e-06 V	-0,000040 V	1.35%	Pass
Channel 5	10.0000 V	9.999922 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000078 V	1.74%	Pass
Channel 5	12.0000 V	12.000249 V	11.994900 V	12.005100 V	170.00 e-06 V	0,000249 V	4.87%	Pass
Channel 5	24.0000 V	23.999907 V	23.991300 V	24.008700 V	300.00 e-06 V	-0,000093 V	1.06%	Pass
Channel 6	0.5000 V	0.500548 V	0.498350 V	0.501650 V	6.90 e-06 V	0,000548 V	33.2%	Pass
Channel 6	1.0000 V	0.999944 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000056 V	3.09%	Pass
Channel 6	2.0000 V	1.999724 V	1.997900 V	2.002100 V	21.00 e-06 V	-0,000276 V	13.2%	Pass
Channel 6	5.0000 V	4.999895 V	4.997000 V	5.003000 V	46.00 e-06 V	-0,000105 V	3.5%	Pass
Channel 6	10.0000 V	9.999920 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000080 V	1.78%	Pass
Channel 6	12.0000 V	11.999770 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,000230 V	4.51%	Pass
Channel 6	24.0000 V	24.000036 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000036 V	0.41%	Pass
Channel 7	0.5000 V	0.499678 V	0.498350 V	0.501650 V	6.90 e-06 V	-0,000322 V	19.5%	Pass
Channel 7	1.0000 V	1.000174 V	0.998200 V	1.001800 V	11.00 e-06 V	0,000174 V	9.64%	Pass
Channel 7	2.0000 V	2.000234 V	1.997900 V	2.002100 V	21.00 e-06 V	0,000234 V	11.1%	Pass
Channel 7	5.0000 V	5.000152 V	4.997000 V	5.003000 V	46.00 e-06 V	0,000152 V	5.07%	Pass
Channel 7	10.0000 V	9.999774 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000226 V	5.02%	Pass
Channel 7	12.0000 V	11.999711 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,000289 V	5.67%	Pass
Channel 7	24.0000 V	24.000046 V	23.991300 V	24.008700 V	300.00 e-06 V	0,000046 V	0.525%	Pass
Channel 8	0.5000 V	0.498905 V	0.498350 V	0.501650 V	6.90 e-06 V	-0,001095 V	66.4%	Pass
Channel 8	1.0000 V	0.999606 V	0.998200 V	1.001800 V	11.00 e-06 V	-0,000394 V	21.9%	Pass
Channel 8	2.0000 V	1.999809 V	1.997900 V	2.002100 V	21.00 e-06 V	-0,000191 V	9.08%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 8	5.0000 V	4.999817 V	4.997000 V	5.003000 V	46.00 e-06 V	-0,000183 V	6.11%	Pass
Channel 8	10.0000 V	9.999616 V	9.995500 V	10.004500 V	87.00 e-06 V	-0,000384 V	8.54%	Pass
Channel 8	12.0000 V	11.998799 V	11.994900 V	12.005100 V	170.00 e-06 V	-0,001201 V	23.6%	Pass
Channel 8	24.0000 V	23.999767 V	23.991300 V	24.008700 V	300.00 e-06 V	-0,000233 V	2.68%	Pass
Excitation Current Calibration								
Accuracy up to 5mA : 0.05% of Value ±2µA								
Accuracy above 5mA : 0.50% of Value ±5µA								
Channel 1	0.200mA	0.19992 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	-0,00008 mA	4.02%	Pass
Channel 1	1.000mA	0.99977 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	-0,00023 mA	9.16%	Pass
Channel 1	5.000mA	4.99903 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00097 mA	21.5%	Pass
Channel 1	20.000mA	19.98439 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,01561 mA	14.9%	Pass
Channel 1	30.000mA	29.95221 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,04779 mA	30.8%	Pass
Channel 1	42.000mA	41.93511 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,06489 mA	30.2%	Pass
Channel 1	54.000mA	53.91810 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,08190 mA	29.8%	Pass
Channel 2	0.200mA	0.19976 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	-0,00024 mA	11.3%	Pass
Channel 2	1.000mA	1.00016 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	0,00016 mA	6.23%	Pass
Channel 2	5.000mA	4.99980 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00020 mA	4.54%	Pass
Channel 2	20.000mA	19.97926 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,02074 mA	19.8%	Pass
Channel 2	30.000mA	29.92897 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,07103 mA	45.8%	Pass
Channel 2	42.000mA	41.90161 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,09839 mA	45.8%	Pass
Channel 2	54.000mA	53.86528 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,13472 mA	49%	Pass
Channel 3	0.200mA	0.20021 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	0,00021 mA	10.2%	Pass
Channel 3	1.000mA	1.00008 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	0,00008 mA	3.34%	Pass
Channel 3	5.000mA	5.00041 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	0,00041 mA	9.18%	Pass
Channel 3	20.000mA	19.98802 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,01198 mA	11.4%	Pass
Channel 3	30.000mA	29.94192 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,05808 mA	37.5%	Pass
Channel 3	42.000mA	41.91239 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,08761 mA	40.7%	Pass
Channel 3	54.000mA	53.87840 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,12160 mA	44.2%	Pass
Channel 4	0.200mA	0.19958 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	-0,00042 mA	20.2%	Pass
Channel 4	1.000mA	0.99986 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	-0,00014 mA	5.66%	Pass
Channel 4	5.000mA	4.99869 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00131 mA	29.1%	Pass
Channel 4	20.000mA	19.98137 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,01863 mA	17.7%	Pass
Channel 4	30.000mA	29.95240 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,04760 mA	30.7%	Pass
Channel 4	42.000mA	41.94091 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,05909 mA	27.5%	Pass
Channel 4	54.000mA	53.91834 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,08166 mA	29.7%	Pass
Channel 5	0.200mA	0.20057 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	0,00057 mA	27.2%	Pass
Channel 5	1.000mA	1.00069 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	0,00069 mA	27.4%	Pass
Channel 5	5.000mA	4.99997 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00003 mA	0.687%	Pass
Channel 5	20.000mA	19.97738 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,02262 mA	21.5%	Pass
Channel 5	30.000mA	29.95045 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,04955 mA	32%	Pass
Channel 5	42.000mA	41.93145 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,06855 mA	31.9%	Pass
Channel 5	54.000mA	53.90191 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,09809 mA	35.7%	Pass
Channel 6	0.200mA	0.20012 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	0,00012 mA	5.82%	Pass
Channel 6	1.000mA	1.00001 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	0,00001 mA	0.499%	Pass
Channel 6	5.000mA	4.99920 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00080 mA	17.9%	Pass
Channel 6	20.000mA	19.98719 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,01281 mA	12.2%	Pass
Channel 6	30.000mA	29.96096 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,03904 mA	25.2%	Pass
Channel 6	42.000mA	41.94082 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,05918 mA	27.5%	Pass
Channel 6	54.000mA	53.91401 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,08599 mA	31.3%	Pass
Channel 7	0.200mA	0.20017 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	0,00017 mA	8.2%	Pass
Channel 7	1.000mA	1.00023 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	0,00023 mA	9.1%	Pass
Channel 7	5.000mA	4.99954 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00046 mA	10.2%	Pass
Channel 7	20.000mA	19.98995 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,01005 mA	9.57%	Pass
Channel 7	30.000mA	29.96874 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,03126 mA	20.2%	Pass
Channel 7	42.000mA	41.95484 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,04516 mA	21%	Pass
Channel 7	54.000mA	53.93490 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,06510 mA	23.7%	Pass
Channel 8	0.200mA	0.19982 mA	0.19790 mA	0.20210 mA	14.00 e-06 mA	-0,00018 mA	8.75%	Pass
Channel 8	1.000mA	0.99938 mA	0.99750 mA	1.00250 mA	42.00 e-06 mA	-0,00062 mA	24.9%	Pass
Channel 8	5.000mA	4.99859 mA	4.99550 mA	5.00450 mA	240.00 e-06 mA	-0,00141 mA	31.3%	Pass
Channel 8	20.000mA	19.99753 mA	19.89500 mA	20.10500 mA	1.80 e-03 mA	-0,00247 mA	2.35%	Pass
Channel 8	30.000mA	29.96314 mA	29.84500 mA	30.15500 mA	2.30 e-03 mA	-0,03686 mA	23.8%	Pass
Channel 8	42.000mA	41.95518 mA	41.78500 mA	42.21500 mA	3.00 e-03 mA	-0,04482 mA	20.8%	Pass
Channel 8	54.000mA	53.93830 mA	53.72500 mA	54.27500 mA	3.70 e-03 mA	-0,06170 mA	22.4%	Pass
Current Calibration								
Accurracy:								
+/-0.1% of reading +/-10µA								
Range: 0.03A								
################################								
Channel 1								
0A	0.000000 A	-0.000001 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000001 A	12.6%	Pass
0.003A	0.003000 A	0.002999 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000001 A	10.6%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.45%	Pass
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	9.55%	Pass
Channel 2								
0A	0.000000 A	-0.000001 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000001 A	14.8%	Pass
0.003A	0.003000 A	0.002998 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000002 A	11.9%	Pass
0.027A	0.027000 A	0.027001 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000001 A	2.16%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	10%	Pass
Channel 3								
0A	0.000000 A	-0.000002 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000002 A	16.6%	Pass
0.003A	0.003000 A	0.002998 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000002 A	13.8%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.811%	Pass
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	11%	Pass
Channel 4								
0A	0.000000 A	-0.000002 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000002 A	18.3%	Pass
0.003A	0.003000 A	0.002998 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000002 A	14%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.0901%	Pass
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	10.3%	Pass
Channel 5								
0A	0.000000 A	-0.000002 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000002 A	20%	Pass
0.003A	0.003000 A	0.002998 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000002 A	16.9%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.901%	Pass
-0.027A	-0.027000 A	-0.027005 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000005 A	14%	Pass
Channel 6								
0A	0.000000 A	-0.000001 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000001 A	14.3%	Pass
0.003A	0.003000 A	0.002999 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000001 A	9.82%	Pass
0.027A	0.027000 A	0.027001 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000001 A	2.52%	Pass
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	10.8%	Pass
Channel 7								
0A	0.000000 A	-0.000002 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000002 A	17.7%	Pass
0.003A	0.003000 A	0.002999 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000001 A	10.9%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.18%	Pass
-0.027A	-0.027000 A	-0.027003 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000003 A	8.2%	Pass
Channel 8								
0A	0.000000 A	-0.000002 A	-0.000010 A	0.000010 A	24.00 e-09 A	-0,000002 A	17.7%	Pass
0.003A	0.003000 A	0.002999 A	0.002987 A	0.003013 A	420.00 e-09 A	-0,000001 A	11.2%	Pass
0.027A	0.027000 A	0.027000 A	0.026963 A	0.027037 A	3.70 e-06 A	0,000000 A	0.991%	Pass
-0.027A	-0.027000 A	-0.027004 A	-0.027037 A	-0.026963 A	3.70 e-06 A	-0,000004 A	11.4%	Pass

Voltage Calibration
Accuracy up to 10V:
DC to 10kHz : 0.02% of reading +/-0.02% of Range +/-20µV
>10kz to 100kHz : (0.005 % * f) of reading +/-0.02% of Range +/-20µV
f: frequency in kHz

Accuracy above 10V:
DC to 5kHz : 0.02% of reading +/-0.02% of Range
>5kz to 100kHz : (0.015 % * f) of reading +/-0.02% of Range

All Tests done with appropriate Range
SampleRate for Testsignals >1kHz: 2MS/s
SampleRate for all other Tests: 100kS/s

Range: 0.1V
##############################

Test @ 0V DC								
Channel 1	0.000000 V	-0.000004 V	-0.000040 V	0.000040 V	3.40 e-06 V	-0,000004 V	10.9%	Pass
Channel 2	0.000000 V	0.000002 V	-0.000040 V	0.000040 V	3.40 e-06 V	0,000002 V	4.92%	Pass
Channel 3	0.000000 V	-0.000000 V	-0.000040 V	0.000040 V	3.40 e-06 V	0,000000 V	0.917%	Pass
Channel 4	0.000000 V	-0.000001 V	-0.000040 V	0.000040 V	3.40 e-06 V	-0,000001 V	3.45%	Pass
Channel 5	0.000000 V	-0.000003 V	-0.000040 V	0.000040 V	3.40 e-06 V	-0,000003 V	6.88%	Pass
Channel 6	0.000000 V	0.000001 V	-0.000040 V	0.000040 V	3.40 e-06 V	0,000001 V	1.3%	Pass
Channel 7	0.000000 V	-0.000001 V	-0.000040 V	0.000040 V	3.40 e-06 V	-0,000001 V	3.54%	Pass
Channel 8	0.000000 V	0.000002 V	-0.000040 V	0.000040 V	3.40 e-06 V	0,000002 V	4.48%	Pass
Test @ 0.01V DC								
Channel 1	0.010000 V	0.009996 V	0.009958 V	0.010042 V	3.50 e-06 V	-0,000004 V	9.77%	Pass
Channel 2	0.010000 V	0.010000 V	0.009958 V	0.010042 V	3.50 e-06 V	0,000000 V	0.722%	Pass
Channel 3	0.010000 V	0.009996 V	0.009958 V	0.010042 V	3.50 e-06 V	-0,000004 V	8.6%	Pass
Channel 4	0.010000 V	0.010001 V	0.009958 V	0.010042 V	3.50 e-06 V	0,000001 V	2.21%	Pass
Channel 5	0.010000 V	0.009995 V	0.009958 V	0.010042 V	3.50 e-06 V	-0,000005 V	11.6%	Pass
Channel 6	0.010000 V	0.010000 V	0.009958 V	0.010042 V	3.50 e-06 V	0,000000 V	0.421%	Pass
Channel 7	0.010000 V	0.009999 V	0.009958 V	0.010042 V	3.50 e-06 V	-0,000001 V	1.76%	Pass
Channel 8	0.010000 V	0.010003 V	0.009958 V	0.010042 V	3.50 e-06 V	0,000003 V	6.36%	Pass
Test @ 0.09V DC								
Channel 1	0.090000 V	0.089995 V	0.089942 V	0.090058 V	4.10 e-06 V	-0,000005 V	8.39%	Pass
Channel 2	0.090000 V	0.089999 V	0.089942 V	0.090058 V	4.10 e-06 V	-0,000001 V	2.13%	Pass
Channel 3	0.090000 V	0.089998 V	0.089942 V	0.090058 V	4.10 e-06 V	-0,000002 V	3.33%	Pass
Channel 4	0.090000 V	0.090002 V	0.089942 V	0.090058 V	4.10 e-06 V	0,000002 V	3.39%	Pass
Channel 5	0.090000 V	0.089998 V	0.089942 V	0.090058 V	4.10 e-06 V	-0,000002 V	2.59%	Pass
Channel 6	0.090000 V	0.090001 V	0.089942 V	0.090058 V	4.10 e-06 V	0,000001 V	1.67%	Pass
Channel 7	0.090000 V	0.090000 V	0.089942 V	0.090058 V	4.10 e-06 V	0,000000 V	0.575%	Pass
Channel 8	0.090000 V	0.090003 V	0.089942 V	0.090058 V	4.10 e-06 V	0,000003 V	5.75%	Pass
Test @ -0.09V DC								
Channel 1	-0.090000 V	-0.090008 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000008 V	14.7%	Pass
Channel 2	-0.090000 V	-0.089998 V	-0.090058 V	-0.089942 V	4.10 e-06 V	0,000002 V	4.31%	Pass
Channel 3	-0.090000 V	-0.090007 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000007 V	12.4%	Pass
Channel 4	-0.090000 V	-0.090001 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000001 V	1.21%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 5	-0.090000 V	-0.090019 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000019 V	32.3%	Pass
Channel 6	-0.090000 V	-0.090004 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000004 V	6.9%	Pass
Channel 7	-0.090000 V	-0.090010 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000010 V	16.5%	Pass
Channel 8	-0.090000 V	-0.090007 V	-0.090058 V	-0.089942 V	4.10 e-06 V	-0,000007 V	11.3%	Pass
Test @ 0.01V_RMS @ 1000Hz								
Channel 1	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.476%	Pass
Channel 2	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.0556%	Pass
Channel 3	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.23%	Pass
Channel 4	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.0714%	Pass
Channel 5	0.010000 V	0.010001 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000001 V	1.27%	Pass
Channel 6	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.333%	Pass
Channel 7	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.421%	Pass
Channel 8	0.010000 V	0.010000 V	0.009958 V	0.010042 V	10.00 e-06 V	0,000000 V	0.873%	Pass
Test @ 0.07V RMS @ 50Hz								
Channel 1	0.070000 V	0.070001 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000001 V	1.48%	Pass
Channel 2	0.070000 V	0.069999 V	0.069946 V	0.070054 V	23.00 e-06 V	-0,000001 V	1.79%	Pass
Channel 3	0.070000 V	0.070001 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000001 V	2.22%	Pass
Channel 4	0.070000 V	0.070000 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000000 V	0.309%	Pass
Channel 5	0.070000 V	0.070004 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000004 V	8.09%	Pass
Channel 6	0.070000 V	0.070000 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000000 V	0.864%	Pass
Channel 7	0.070000 V	0.070002 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000002 V	4.63%	Pass
Channel 8	0.070000 V	0.070002 V	0.069946 V	0.070054 V	23.00 e-06 V	0,000002 V	4.2%	Pass
Test @ 0.07V RMS @ 50000Hz								
Channel 1	0.070000 V	0.069922 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000078 V	36.4%	Pass
Channel 2	0.070000 V	0.069929 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000071 V	32.9%	Pass
Channel 3	0.070000 V	0.069919 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000081 V	37.6%	Pass
Channel 4	0.070000 V	0.069929 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000071 V	33.2%	Pass
Channel 5	0.070000 V	0.069921 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000079 V	36.6%	Pass
Channel 6	0.070000 V	0.069930 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000070 V	32.4%	Pass
Channel 7	0.070000 V	0.069920 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000080 V	37%	Pass
Channel 8	0.070000 V	0.069937 V	0.069785 V	0.070215 V	70.00 e-06 V	-0,000063 V	29.2%	Pass
Test @ 0.07V_RMS @ 100000Hz								
Channel 1	0.070000 V	0.069815 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000185 V	47.4%	Pass
Channel 2	0.070000 V	0.069835 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000165 V	42.4%	Pass
Channel 3	0.070000 V	0.069809 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000191 V	49%	Pass
Channel 4	0.070000 V	0.069832 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000168 V	43.2%	Pass
Channel 5	0.070000 V	0.069811 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000189 V	48.5%	Pass
Channel 6	0.070000 V	0.069831 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000169 V	43.3%	Pass
Channel 7	0.070000 V	0.069807 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000193 V	49.4%	Pass
Channel 8	0.070000 V	0.069839 V	0.069610 V	0.070390 V	77.00 e-06 V	-0,000161 V	41.2%	Pass
Range: 1V								
################################								
Test @ 0.1V DC								
Channel 1	0.100000 V	0.099983 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000017 V	7.19%	Pass
Channel 2	0.100000 V	0.099988 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000012 V	5.13%	Pass
Channel 3	0.100000 V	0.099978 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000022 V	9.19%	Pass
Channel 4	0.100000 V	0.099995 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000005 V	2.22%	Pass
Channel 5	0.100000 V	0.099959 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000041 V	17.1%	Pass
Channel 6	0.100000 V	0.099997 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000003 V	1.43%	Pass
Channel 7	0.100000 V	0.099991 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000009 V	3.89%	Pass
Channel 8	0.100000 V	0.099992 V	0.099760 V	0.100240 V	4.20 e-06 V	-0,000008 V	3.28%	Pass
Test @ 0.9V DC								
Channel 1	0.900000 V	0.900019 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000019 V	4.67%	Pass
Channel 2	0.900000 V	0.900029 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000029 V	7.25%	Pass
Channel 3	0.900000 V	0.899999 V	0.899600 V	0.900400 V	15.00 e-06 V	-0,000001 V	0.25%	Pass
Channel 4	0.900000 V	0.900036 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000036 V	8.92%	Pass
Channel 5	0.900000 V	0.899993 V	0.899600 V	0.900400 V	15.00 e-06 V	-0,000007 V	1.83%	Pass
Channel 6	0.900000 V	0.900026 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000026 V	6.42%	Pass
Channel 7	0.900000 V	0.900018 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000018 V	4.58%	Pass
Channel 8	0.900000 V	0.900026 V	0.899600 V	0.900400 V	15.00 e-06 V	0,000026 V	6.5%	Pass
Test @ -0.9V DC								
Channel 1	-0.900000 V	-0.900078 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000078 V	19.6%	Pass
Channel 2	-0.900000 V	-0.900044 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000044 V	10.9%	Pass
Channel 3	-0.900000 V	-0.900080 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000080 V	20.1%	Pass
Channel 4	-0.900000 V	-0.900051 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000051 V	12.8%	Pass
Channel 5	-0.900000 V	-0.900158 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000158 V	39.5%	Pass
Channel 6	-0.900000 V	-0.900060 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000060 V	15%	Pass
Channel 7	-0.900000 V	-0.900074 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000074 V	18.4%	Pass
Channel 8	-0.900000 V	-0.900070 V	-0.900400 V	-0.899600 V	15.00 e-06 V	-0,000070 V	17.6%	Pass
Test @ 0.7V_RMS @ 50Hz								
Channel 1	0.700000 V	0.700045 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000045 V	12.5%	Pass
Channel 2	0.700000 V	0.700036 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000036 V	10%	Pass
Channel 3	0.700000 V	0.700041 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000041 V	11.3%	Pass
Channel 4	0.700000 V	0.700046 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000046 V	12.7%	Pass
Channel 5	0.700000 V	0.700054 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000054 V	15.1%	Pass
Channel 6	0.700000 V	0.700039 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000039 V	10.9%	Pass
Channel 7	0.700000 V	0.700038 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000038 V	10.6%	Pass
Channel 8	0.700000 V	0.700045 V	0.699640 V	0.700360 V	200.00 e-06 V	0,000045 V	12.5%	Pass
Test @ 0.7V_RMS @ 50000Hz								
Channel 1	0.700000 V	0.699746 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000254 V	12.9%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 2	0.700000 V	0.699740 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000260 V	13.2%	Pass
Channel 3	0.700000 V	0.699746 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000254 V	12.9%	Pass
Channel 4	0.700000 V	0.699754 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000246 V	12.5%	Pass
Channel 5	0.700000 V	0.699755 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000245 V	12.4%	Pass
Channel 6	0.700000 V	0.699725 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000275 V	13.9%	Pass
Channel 7	0.700000 V	0.699719 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000281 V	14.3%	Pass
Channel 8	0.700000 V	0.699742 V	0.698030 V	0.701970 V	700.00 e-06 V	-0,000258 V	13.1%	Pass
Test @ 0.7V_RMS @ 100000Hz								
Channel 1	0.700000 V	0.699156 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000844 V	22.7%	Pass
Channel 2	0.700000 V	0.699140 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000860 V	23.1%	Pass
Channel 3	0.700000 V	0.699122 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000878 V	23.6%	Pass
Channel 4	0.700000 V	0.699141 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000859 V	23.1%	Pass
Channel 5	0.700000 V	0.699127 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000873 V	23.5%	Pass
Channel 6	0.700000 V	0.699087 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000913 V	24.5%	Pass
Channel 7	0.700000 V	0.699079 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000921 V	24.8%	Pass
Channel 8	0.700000 V	0.699137 V	0.696280 V	0.703720 V	700.00 e-06 V	-0,000863 V	23.2%	Pass
Range: 3V								
################################								
Test @ 0.3V DC								
Channel 1	0.300000 V	0.299905 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000095 V	13.9%	Pass
Channel 2	0.300000 V	0.299970 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000030 V	4.46%	Pass
Channel 3	0.300000 V	0.299902 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000098 V	14.5%	Pass
Channel 4	0.300000 V	0.299946 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000054 V	7.94%	Pass
Channel 5	0.300000 V	0.299841 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000159 V	23.4%	Pass
Channel 6	0.300000 V	0.299951 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000049 V	7.25%	Pass
Channel 7	0.300000 V	0.299902 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000098 V	14.5%	Pass
Channel 8	0.300000 V	0.299964 V	0.299320 V	0.300680 V	8.90 e-06 V	-0,000036 V	5.34%	Pass
Test @ 2.7V DC								
Channel 1	2.700000 V	2.700043 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000043 V	3.74%	Pass
Channel 2	2.700000 V	2.700087 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000087 V	7.47%	Pass
Channel 3	2.700000 V	2.700033 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000033 V	2.87%	Pass
Channel 4	2.700000 V	2.700107 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000107 V	9.2%	Pass
Channel 5	2.700000 V	2.700040 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000040 V	3.45%	Pass
Channel 6	2.700000 V	2.700143 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000143 V	12.4%	Pass
Channel 7	2.700000 V	2.700047 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000047 V	4.02%	Pass
Channel 8	2.700000 V	2.700080 V	2.698840 V	2.701160 V	41.00 e-06 V	0,000080 V	6.9%	Pass
Test @ -2.7V DC								
Channel 1	-2.700000 V	-2.700170 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000170 V	14.7%	Pass
Channel 2	-2.700000 V	-2.700137 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000137 V	11.8%	Pass
Channel 3	-2.700000 V	-2.700200 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000200 V	17.2%	Pass
Channel 4	-2.700000 V	-2.700193 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000193 V	16.7%	Pass
Channel 5	-2.700000 V	-2.700323 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000323 V	27.9%	Pass
Channel 6	-2.700000 V	-2.700233 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000233 V	20.1%	Pass
Channel 7	-2.700000 V	-2.700177 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000177 V	15.2%	Pass
Channel 8	-2.700000 V	-2.700217 V	-2.701160 V	-2.698840 V	41.00 e-06 V	-0,000217 V	18.7%	Pass
Test @ 2.1V_RMS @ 50Hz								
Channel 1	2.100000 V	2.100100 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000100 V	9.62%	Pass
Channel 2	2.100000 V	2.100103 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000103 V	9.94%	Pass
Channel 3	2.100000 V	2.100090 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000090 V	8.65%	Pass
Channel 4	2.100000 V	2.100123 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000123 V	11.9%	Pass
Channel 5	2.100000 V	2.100123 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000123 V	11.9%	Pass
Channel 6	2.100000 V	2.100143 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000143 V	13.8%	Pass
Channel 7	2.100000 V	2.100080 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000080 V	7.69%	Pass
Channel 8	2.100000 V	2.100127 V	2.098960 V	2.101040 V	460.00 e-06 V	0,000127 V	12.2%	Pass
Test @ 2.1V_RMS @ 50000Hz								
Channel 1	2.100000 V	2.099800 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000200 V	3.41%	Pass
Channel 2	2.100000 V	2.099800 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000200 V	3.41%	Pass
Channel 3	2.100000 V	2.099770 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000230 V	3.92%	Pass
Channel 4	2.100000 V	2.099810 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000190 V	3.24%	Pass
Channel 5	2.100000 V	2.099830 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000170 V	2.9%	Pass
Channel 6	2.100000 V	2.099820 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000180 V	3.07%	Pass
Channel 7	2.100000 V	2.099753 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000247 V	4.2%	Pass
Channel 8	2.100000 V	2.099860 V	2.094130 V	2.105870 V	2.30 e-03 V	-0,000140 V	2.39%	Pass
Test @ 2.1V RMS @ 100000Hz								
Channel 1	2.100000 V	2.099687 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000313 V	2.82%	Pass
Channel 2	2.100000 V	2.099710 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000290 V	2.61%	Pass
Channel 3	2.100000 V	2.099613 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000387 V	3.48%	Pass
Channel 4	2.100000 V	2.099720 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000280 V	2.52%	Pass
Channel 5	2.100000 V	2.099680 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000320 V	2.88%	Pass
Channel 6	2.100000 V	2.099650 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000350 V	3.15%	Pass
Channel 7	2.100000 V	2.099560 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000440 V	3.96%	Pass
Channel 8	2.100000 V	2.099733 V	2.088880 V	2.111120 V	2.30 e-03 V	-0,000267 V	2.4%	Pass
Range: 10V								
################################								
Test @ 1V DC								
Channel 1	1.000000 V	0.999973 V	0.997780 V	1.002220 V	17.00 e-06 V	-0,000027 V	1.23%	Pass
Channel 2	1.000000 V	1.000190 V	0.997780 V	1.002220 V	17.00 e-06 V	0,000190 V	8.56%	Pass
Channel 3	1.000000 V	0.999966 V	0.997780 V	1.002220 V	17.00 e-06 V	-0,000034 V	1.53%	Pass
Channel 4	1.000000 V	1.000043 V	0.997780 V	1.002220 V	17.00 e-06 V	0,000043 V	1.95%	Pass
Channel 5	1.000000 V	0.999866 V	0.997780 V	1.002220 V	17.00 e-06 V	-0,000134 V	6.04%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 6	1.000000 V	1.000177 V	0.997780 V	1.002220 V	17.00 e-06 V	0,000177 V	7.96%	Pass
Channel 7	1.000000 V	1.000090 V	0.997780 V	1.002220 V	17.00 e-06 V	0,000090 V	4.05%	Pass
Channel 8	1.000000 V	1.000007 V	0.997780 V	1.002220 V	17.00 e-06 V	0,000007 V	0.3%	Pass
Test @ -1V DC								
Channel 1	-1.000000 V	-0.999984 V	-1.002220 V	-0.997780 V	17.00 e-06 V	0,000016 V	0.736%	Pass
Channel 2	-1.000000 V	-0.999828 V	-1.002220 V	-0.997780 V	17.00 e-06 V	0,000172 V	7.76%	Pass
Channel 3	-1.000000 V	-1.000047 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000047 V	2.1%	Pass
Channel 4	-1.000000 V	-1.000017 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000017 V	0.751%	Pass
Channel 5	-1.000000 V	-1.000577 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000577 V	26%	Pass
Channel 6	-1.000000 V	-1.000133 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000133 V	6.01%	Pass
Channel 7	-1.000000 V	-1.000267 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000267 V	12%	Pass
Channel 8	-1.000000 V	-1.000230 V	-1.002220 V	-0.997780 V	17.00 e-06 V	-0,000230 V	10.4%	Pass
Test @ 3V DC								
Channel 1	3.000000 V	2.999960 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000040 V	1.53%	Pass
Channel 2	3.000000 V	3.000013 V	2.997380 V	3.002620 V	45.00 e-06 V	0,000013 V	0.509%	Pass
Channel 3	3.000000 V	2.999793 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000207 V	7.89%	Pass
Channel 4	3.000000 V	2.999963 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000037 V	1.4%	Pass
Channel 5	3.000000 V	2.999797 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000203 V	7.76%	Pass
Channel 6	3.000000 V	3.000123 V	2.997380 V	3.002620 V	45.00 e-06 V	0,000123 V	4.71%	Pass
Channel 7	3.000000 V	2.999863 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000137 V	5.22%	Pass
Channel 8	3.000000 V	2.999940 V	2.997380 V	3.002620 V	45.00 e-06 V	-0,000060 V	2.29%	Pass
Test @ 5V DC								
Channel 1	5.000000 V	5.000197 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000197 V	6.51%	Pass
Channel 2	5.000000 V	5.000403 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000403 V	13.4%	Pass
Channel 3	5.000000 V	5.000173 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000173 V	5.74%	Pass
Channel 4	5.000000 V	5.000267 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000267 V	8.83%	Pass
Channel 5	5.000000 V	5.000017 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000017 V	0.552%	Pass
Channel 6	5.000000 V	5.000500 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000500 V	16.6%	Pass
Channel 7	5.000000 V	5.000300 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000300 V	9.93%	Pass
Channel 8	5.000000 V	5.000120 V	4.996980 V	5.003020 V	110.00 e-06 V	0,000120 V	3.97%	Pass
Test @ -5V DC								
Channel 1	-5.000000 V	-5.000327 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000327 V	10.8%	Pass
Channel 2	-5.000000 V	-5.000307 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000307 V	10.2%	Pass
Channel 3	-5.000000 V	-5.000250 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000250 V	8.28%	Pass
Channel 4	-5.000000 V	-5.000437 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000437 V	14.5%	Pass
Channel 5	-5.000000 V	-5.000647 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000647 V	21.4%	Pass
Channel 6	-5.000000 V	-5.000507 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000507 V	16.8%	Pass
Channel 7	-5.000000 V	-5.000420 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000420 V	13.9%	Pass
Channel 8	-5.000000 V	-5.000437 V	-5.003020 V	-4.996980 V	110.00 e-06 V	-0,000437 V	14.5%	Pass
Test @ 7V DC								
Channel 1	7.000000 V	7.000270 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000270 V	7.89%	Pass
Channel 2	7.000000 V	7.000423 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000423 V	12.4%	Pass
Channel 3	7.000000 V	7.000173 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000173 V	5.07%	Pass
Channel 4	7.000000 V	7.000387 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000387 V	11.3%	Pass
Channel 5	7.000000 V	7.000117 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000117 V	3.41%	Pass
Channel 6	7.000000 V	7.000513 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000513 V	15%	Pass
Channel 7	7.000000 V	7.000253 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000253 V	7.41%	Pass
Channel 8	7.000000 V	7.000277 V	6.996580 V	7.003420 V	140.00 e-06 V	0,000277 V	8.09%	Pass
Test @ 9V DC								
Channel 1	9.000000 V	9.000063 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000063 V	1.66%	Pass
Channel 2	9.000000 V	9.000357 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000357 V	9.34%	Pass
Channel 3	9.000000 V	8.999983 V	8.996180 V	9.003820 V	170.00 e-06 V	-0,000017 V	0.436%	Pass
Channel 4	9.000000 V	9.000310 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000310 V	8.12%	Pass
Channel 5	9.000000 V	9.000177 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000177 V	4.62%	Pass
Channel 6	9.000000 V	9.000443 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000443 V	11.6%	Pass
Channel 7	9.000000 V	9.000187 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000187 V	4.89%	Pass
Channel 8	9.000000 V	9.000197 V	8.996180 V	9.003820 V	170.00 e-06 V	0,000197 V	5.15%	Pass
Test @ -9V DC								
Channel 1	-9.000000 V	-9.000590 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000590 V	15.4%	Pass
Channel 2	-9.000000 V	-9.000420 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000420 V	11%	Pass
Channel 3	-9.000000 V	-9.000300 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000300 V	7.85%	Pass
Channel 4	-9.000000 V	-9.000630 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000630 V	16.5%	Pass
Channel 5	-9.000000 V	-9.000833 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000833 V	21.8%	Pass
Channel 6	-9.000000 V	-9.000680 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000680 V	17.8%	Pass
Channel 7	-9.000000 V	-9.000347 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000347 V	9.08%	Pass
Channel 8	-9.000000 V	-9.000570 V	-9.003820 V	-8.996180 V	170.00 e-06 V	-0,000570 V	14.9%	Pass
Test @ 1V_RMS @ 50Hz								
Channel 1	1.000000 V	1.000050 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000050 V	2.25%	Pass
Channel 2	1.000000 V	1.000050 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000050 V	2.25%	Pass
Channel 3	1.000000 V	1.000030 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000030 V	1.35%	Pass
Channel 4	1.000000 V	1.000073 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000073 V	3.3%	Pass
Channel 5	1.000000 V	1.000073 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000073 V	3.3%	Pass
Channel 6	1.000000 V	1.000097 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000097 V	4.35%	Pass
Channel 7	1.000000 V	1.000067 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000067 V	3%	Pass
Channel 8	1.000000 V	1.000063 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000063 V	2.85%	Pass
Test @ 1V_RMS @ 1000Hz								
Channel 1	1.000000 V	1.000040 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000040 V	1.8%	Pass
Channel 2	1.000000 V	1.000047 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000047 V	2.1%	Pass
Channel 3	1.000000 V	1.000030 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000030 V	1.35%	Pass
Channel 4	1.000000 V	1.000067 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000067 V	3%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 5	1.000000 V	1.000087 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000087 V	3.9%	Pass
Channel 6	1.000000 V	1.000090 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000090 V	4.05%	Pass
Channel 7	1.000000 V	1.000070 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000070 V	3.15%	Pass
Channel 8	1.000000 V	1.000063 V	0.997780 V	1.002220 V	260.00 e-06 V	0,000063 V	2.85%	Pass
Test @ 5V_RMS @ 50Hz								
Channel 1	5.000000 V	5.000217 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000217 V	7.17%	Pass
Channel 2	5.000000 V	5.000200 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000200 V	6.62%	Pass
Channel 3	5.000000 V	5.000193 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000193 V	6.4%	Pass
Channel 4	5.000000 V	5.000333 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000333 V	11%	Pass
Channel 5	5.000000 V	5.000270 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000270 V	8.94%	Pass
Channel 6	5.000000 V	5.000380 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000380 V	12.6%	Pass
Channel 7	5.000000 V	5.000220 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000220 V	7.28%	Pass
Channel 8	5.000000 V	5.000317 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000317 V	10.5%	Pass
Test @ 5V RMS @ 1000Hz								
Channel 1	5.000000 V	5.000007 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000007 V	0.221%	Pass
Channel 2	5.000000 V	5.000013 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000013 V	0.442%	Pass
Channel 3	5.000000 V	4.999930 V	4.996980 V	5.003020 V	1.70 e-03 V	-0,000070 V	2.32%	Pass
Channel 4	5.000000 V	5.000043 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000043 V	1.43%	Pass
Channel 5	5.000000 V	5.000120 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000120 V	3.97%	Pass
Channel 6	5.000000 V	5.000150 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000150 V	4.97%	Pass
Channel 7	5.000000 V	5.000007 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000007 V	0.221%	Pass
Channel 8	5.000000 V	5.000093 V	4.996980 V	5.003020 V	1.70 e-03 V	0,000093 V	3.09%	Pass
Test @ 7V RMS @ 50Hz								
Channel 1	7.000000 V	7.000507 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000507 V	14.8%	Pass
Channel 2	7.000000 V	7.000493 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000493 V	14.4%	Pass
Channel 3	7.000000 V	7.000130 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000130 V	3.8%	Pass
Channel 4	7.000000 V	7.000633 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000633 V	18.5%	Pass
Channel 5	7.000000 V	7.000507 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000507 V	14.8%	Pass
Channel 6	7.000000 V	7.000677 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000677 V	19.8%	Pass
Channel 7	7.000000 V	7.000347 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000347 V	10.1%	Pass
Channel 8	7.000000 V	7.000497 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000497 V	14.5%	Pass
Test @ 7V_RMS @ 1000Hz								
Channel 1	7.000000 V	6.999960 V	6.996580 V	7.003420 V	2.10 e-03 V	-0,000040 V	1.17%	Pass
Channel 2	7.000000 V	6.999997 V	6.996580 V	7.003420 V	2.10 e-03 V	-0,000003 V	0.0975%	Pass
Channel 3	7.000000 V	6.999843 V	6.996580 V	7.003420 V	2.10 e-03 V	-0,000157 V	4.58%	Pass
Channel 4	7.000000 V	7.000080 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000080 V	2.34%	Pass
Channel 5	7.000000 V	7.000137 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000137 V	4%	Pass
Channel 6	7.000000 V	7.000217 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000217 V	6.34%	Pass
Channel 7	7.000000 V	7.000000 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000000 V	0%	Pass
Channel 8	7.000000 V	7.000033 V	6.996580 V	7.003420 V	2.10 e-03 V	0,000033 V	0.975%	Pass
Test @ 7V_RMS @ 50000Hz								
Channel 1	7.000000 V	6.998167 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001833 V	9.39%	Pass
Channel 2	7.000000 V	6.998233 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001767 V	9.05%	Pass
Channel 3	7.000000 V	6.998103 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001897 V	9.72%	Pass
Channel 4	7.000000 V	6.998423 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001577 V	8.08%	Pass
Channel 5	7.000000 V	6.998423 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001577 V	8.08%	Pass
Channel 6	7.000000 V	6.998430 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001570 V	8.04%	Pass
Channel 7	7.000000 V	6.998187 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001813 V	9.29%	Pass
Channel 8	7.000000 V	6.998410 V	6.980480 V	7.019520 V	7.00 e-03 V	-0,001590 V	8.15%	Pass
Test @ 7V_RMS @ 100000Hz								
Channel 1	7.000000 V	6.995290 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004710 V	12.7%	Pass
Channel 2	7.000000 V	6.995733 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004267 V	11.5%	Pass
Channel 3	7.000000 V	6.995660 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004340 V	11.7%	Pass
Channel 4	7.000000 V	6.996323 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,003677 V	9.93%	Pass
Channel 5	7.000000 V	6.996177 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,003823 V	10.3%	Pass
Channel 6	7.000000 V	6.995950 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004050 V	10.9%	Pass
Channel 7	7.000000 V	6.995353 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004647 V	12.6%	Pass
Channel 8	7.000000 V	6.995657 V	6.962980 V	7.037020 V	9.40 e-03 V	-0,004343 V	11.7%	Pass
Range: 30V								
################################								
Test @ 3V DC								
Channel 1	3.000000 V	2.998943 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,001057 V	16%	Pass
Channel 2	3.000000 V	2.999040 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,000960 V	14.5%	Pass
Channel 3	3.000000 V	2.999027 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,000973 V	14.7%	Pass
Channel 4	3.000000 V	3.000083 V	2.993400 V	3.006600 V	45.00 e-06 V	0,000083 V	1.26%	Pass
Channel 5	3.000000 V	2.998243 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,001757 V	26.6%	Pass
Channel 6	3.000000 V	2.999913 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,000087 V	1.31%	Pass
Channel 7	3.000000 V	2.999273 V	2.993400 V	3.006600 V	45.00 e-06 V	-0,000727 V	11%	Pass
Channel 8	3.000000 V	3.000180 V	2.993400 V	3.006600 V	45.00 e-06 V	0,000180 V	2.73%	Pass
Test @ 27V DC								
Channel 1	27.000000 V	27.000000 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000000 V	0%	Pass
Channel 2	27.000000 V	27.000033 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000033 V	0.292%	Pass
Channel 3	27.000000 V	27.000200 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000200 V	1.75%	Pass
Channel 4	27.000000 V	27.001033 V	26.988600 V	27.011400 V	460.00 e-06 V	0,001033 V	9.06%	Pass
Channel 5	27.000000 V	27.000033 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000033 V	0.292%	Pass
Channel 6	27.000000 V	27.000900 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000900 V	7.89%	Pass
Channel 7	27.000000 V	27.000167 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000167 V	1.46%	Pass
Channel 8	27.000000 V	27.000933 V	26.988600 V	27.011400 V	460.00 e-06 V	0,000933 V	8.19%	Pass
Test @ -27V DC								
Channel 1	-27.000000 V	-27.002567 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,002567 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 2	-27.000000 V	-27.002100 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,002100 V	18.4%	Pass
Channel 3	-27.000000 V	-27.002733 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,002733 V	24%	Pass
Channel 4	-27.000000 V	-27.001367 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,001367 V	12%	Pass
Channel 5	-27.000000 V	-27.004067 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,004067 V	35.7%	Pass
Channel 6	-27.000000 V	-27.000900 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,000900 V	7.89%	Pass
Channel 7	-27.000000 V	-27.001300 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,001300 V	11.4%	Pass
Channel 8	-27.000000 V	-27.002100 V	-27.011400 V	-26.988600 V	460.00 e-06 V	-0,002100 V	18.4%	Pass
Test @ 21V_RMS @ 50Hz								
Channel 1	21.000000 V	21.001333 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001333 V	13.1%	Pass
Channel 2	21.000000 V	21.001500 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001500 V	14.7%	Pass
Channel 3	21.000000 V	21.001667 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001667 V	16.3%	Pass
Channel 4	21.000000 V	21.001467 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001467 V	14.4%	Pass
Channel 5	21.000000 V	21.001600 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001600 V	15.7%	Pass
Channel 6	21.000000 V	21.001333 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001333 V	13.1%	Pass
Channel 7	21.000000 V	21.001133 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001133 V	11.1%	Pass
Channel 8	21.000000 V	21.001900 V	20.989800 V	21.010200 V	4.70 e-03 V	0,001900 V	18.6%	Pass
Test @ 21V_RMS @ 50000Hz								
Channel 1	21.000000 V	20.990300 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,009700 V	5.93%	Pass
Channel 2	21.000000 V	20.951767 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,048233 V	29.5%	Pass
Channel 3	21.000000 V	20.986167 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,013833 V	8.46%	Pass
Channel 4	21.000000 V	20.984033 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,015967 V	9.77%	Pass
Channel 5	21.000000 V	20.985267 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,014733 V	9.01%	Pass
Channel 6	21.000000 V	21.026867 V	20.836500 V	21.163500 V	36.00 e-03 V	0,026867 V	16.4%	Pass
Channel 7	21.000000 V	20.963033 V	20.836500 V	21.163500 V	36.00 e-03 V	-0,036967 V	22.6%	Pass
Channel 8	21.000000 V	21.019800 V	20.836500 V	21.163500 V	36.00 e-03 V	0,019800 V	12.1%	Pass
Test @ 21V_RMS @ 100000Hz								
Channel 1	21.000000 V	20.987400 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,012600 V	3.93%	Pass
Channel 2	21.000000 V	20.904433 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,095567 V	29.8%	Pass
Channel 3	21.000000 V	20.979000 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,021000 V	6.54%	Pass
Channel 4	21.000000 V	20.970733 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,029267 V	9.12%	Pass
Channel 5	21.000000 V	20.978900 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,021100 V	6.57%	Pass
Channel 6	21.000000 V	21.058733 V	20.679000 V	21.321000 V	36.00 e-03 V	0,058733 V	18.3%	Pass
Channel 7	21.000000 V	20.935867 V	20.679000 V	21.321000 V	36.00 e-03 V	-0,064133 V	20%	Pass
Channel 8	21.000000 V	21.045533 V	20.679000 V	21.321000 V	36.00 e-03 V	0,045533 V	14.2%	Pass
Range: 100V								
################################								
Test @ 10V DC								
Channel 1	10.000000 V	9.998983 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,001017 V	4.62%	Pass
Channel 2	10.000000 V	9.998930 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,001070 V	4.86%	Pass
Channel 3	10.000000 V	9.996980 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,003020 V	13.7%	Pass
Channel 4	10.000000 V	9.999367 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,000633 V	2.88%	Pass
Channel 5	10.000000 V	9.994663 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,005337 V	24.3%	Pass
Channel 6	10.000000 V	9.999117 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,000883 V	4.02%	Pass
Channel 7	10.000000 V	9.999240 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,000760 V	3.45%	Pass
Channel 8	10.000000 V	9.999767 V	9.978000 V	10.022000 V	190.00 e-06 V	-0,000233 V	1.06%	Pass
Test @ 90V DC								
Channel 1	90.000000 V	90.000667 V	89.962000 V	90.038000 V	2.40 e-03 V	0,000667 V	1.75%	Pass
Channel 2	90.000000 V	90.002567 V	89.962000 V	90.038000 V	2.40 e-03 V	0,002567 V	6.75%	Pass
Channel 3	90.000000 V	90.000667 V	89.962000 V	90.038000 V	2.40 e-03 V	0,000667 V	1.75%	Pass
Channel 4	90.000000 V	90.003200 V	89.962000 V	90.038000 V	2.40 e-03 V	0,003200 V	8.42%	Pass
Channel 5	90.000000 V	90.001267 V	89.962000 V	90.038000 V	2.40 e-03 V	0,001267 V	3.33%	Pass
Channel 6	90.000000 V	90.004033 V	89.962000 V	90.038000 V	2.40 e-03 V	0,004033 V	10.6%	Pass
Channel 7	90.000000 V	90.001333 V	89.962000 V	90.038000 V	2.40 e-03 V	0,001333 V	3.51%	Pass
Channel 8	90.000000 V	90.002700 V	89.962000 V	90.038000 V	2.40 e-03 V	0,002700 V	7.11%	Pass
Test @ -90V DC								
Channel 1	-90.000000 V	-90.006433 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,006433 V	16.9%	Pass
Channel 2	-90.000000 V	-90.004033 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,004033 V	10.6%	Pass
Channel 3	-90.000000 V	-90.005733 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,005733 V	15.1%	Pass
Channel 4	-90.000000 V	-90.004900 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,004900 V	12.9%	Pass
Channel 5	-90.000000 V	-90.009667 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,009667 V	25.4%	Pass
Channel 6	-90.000000 V	-90.005267 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,005267 V	13.9%	Pass
Channel 7	-90.000000 V	-90.003500 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,003500 V	9.21%	Pass
Channel 8	-90.000000 V	-90.006433 V	-90.038000 V	-89.962000 V	2.40 e-03 V	-0,006433 V	16.9%	Pass
Test @ 70V RMS @ 50Hz								
Channel 1	70.000000 V	70.007867 V	69.966000 V	70.034000 V	19.00 e-03 V	0,007867 V	23.1%	Pass
Channel 2	70.000000 V	70.008167 V	69.966000 V	70.034000 V	19.00 e-03 V	0,008167 V	24%	Pass
Channel 3	70.000000 V	70.007900 V	69.966000 V	70.034000 V	19.00 e-03 V	0,007900 V	23.2%	Pass
Channel 4	70.000000 V	70.008733 V	69.966000 V	70.034000 V	19.00 e-03 V	0,008733 V	25.7%	Pass
Channel 5	70.000000 V	70.009233 V	69.966000 V	70.034000 V	19.00 e-03 V	0,009233 V	27.2%	Pass
Channel 6	70.000000 V	70.009467 V	69.966000 V	70.034000 V	19.00 e-03 V	0,009467 V	27.8%	Pass
Channel 7	70.000000 V	70.007100 V	69.966000 V	70.034000 V	19.00 e-03 V	0,007100 V	20.9%	Pass
Channel 8	70.000000 V	70.009300 V	69.966000 V	70.034000 V	19.00 e-03 V	0,009300 V	27.4%	Pass
Test @ 70V RMS @ 50000Hz								
Channel 1	70.000000 V	69.943067 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,056933 V	10.4%	Pass
Channel 2	70.000000 V	69.816400 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,183600 V	33.7%	Pass
Channel 3	70.000000 V	69.928500 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,071500 V	13.1%	Pass
Channel 4	70.000000 V	69.926533 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,073467 V	13.5%	Pass
Channel 5	70.000000 V	69.926300 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,073700 V	13.5%	Pass
Channel 6	70.000000 V	70.068933 V	69.455000 V	70.545000 V	110.00 e-03 V	0,068933 V	12.6%	Pass
Channel 7	70.000000 V	69.850867 V	69.455000 V	70.545000 V	110.00 e-03 V	-0,149133 V	27.4%	Pass

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
Channel 8	70.000000 V	70.040300 V	69.455000 V	70.545000 V	110.00 e-03 V	0,040300 V	7.39%	Pass
Test @ 70V_RMS @ 100000Hz								
Channel 1	70.000000 V	69.943367 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,056633 V	5.29%	Pass
Channel 2	70.000000 V	69.668533 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,331467 V	31%	Pass
Channel 3	70.000000 V	69.914333 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,085667 V	8.01%	Pass
Channel 4	70.000000 V	69.894700 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,105300 V	9.84%	Pass
Channel 5	70.000000 V	69.917300 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,082700 V	7.73%	Pass
Channel 6	70.000000 V	70.190400 V	68.930000 V	71.070000 V	220.00 e-03 V	0,190400 V	17.8%	Pass
Channel 7	70.000000 V	69.773267 V	68.930000 V	71.070000 V	220.00 e-03 V	-0,226733 V	21.2%	Pass
Channel 8	70.000000 V	70.138333 V	68.930000 V	71.070000 V	220.00 e-03 V	0,138333 V	12.9%	Pass

non-accredited
functional board tests

Excitation Monitor Check		
Channel 1 @1V Excitation	Pass	(1)
Channel 2 @1V Excitation	Pass	(1)
Channel 3 @1V Excitation	Pass	(1)
Channel 4 @1V Excitation	Pass	(1)
Channel 5 @1V Excitation	Pass	(1)
Channel 6 @1V Excitation	Pass	(1)
Channel 7 @1V Excitation	Pass	(1)
Channel 8 @1V Excitation	Pass	(1)
Channel 1 @24V Excitation	Pass	(1)
Channel 2 @24V Excitation	Pass	(1)
Channel 3 @24V Excitation	Pass	(1)
Channel 4 @24V Excitation	Pass	(1)
Channel 5 @24V Excitation	Pass	(1)
Channel 6 @24V Excitation	Pass	(1)
Channel 7 @24V Excitation	Pass	(1)
Channel 8 @24V Excitation	Pass	(1)
Channel 1 @5mA Excitation	Pass	(1)
Channel 2 @5mA Excitation	Pass	(1)
Channel 3 @5mA Excitation	Pass	(1)
Channel 4 @5mA Excitation	Pass	(1)
Channel 5 @5mA Excitation	Pass	(1)
Channel 6 @5mA Excitation	Pass	(1)
Channel 7 @5mA Excitation	Pass	(1)
Channel 8 @5mA Excitation	Pass	(1)
Channel 1 @20mA Excitation	Pass	(1)
Channel 2 @20mA Excitation	Pass	(1)
Channel 3 @20mA Excitation	Pass	(1)
Channel 4 @20mA Excitation	Pass	(1)
Channel 5 @20mA Excitation	Pass	(1)
Channel 6 @20mA Excitation	Pass	(1)
Channel 7 @20mA Excitation	Pass	(1)
Channel 8 @20mA Excitation	Pass	(1)
Highpass Filter Check		
AC - Coupling: 0.16Hz		
Channel 1	Pass	(1)
Channel 2	Pass	(1)
Channel 3	Pass	(1)
Channel 4	Pass	(1)
Channel 5	Pass	(1)
Channel 6	Pass	(1)
Channel 7	Pass	(1)
Channel 8	Pass	(1)
CMRR Check		
@ 50Hz		
Channel 1	Pass	(1)
Channel 2	Pass	(1)
Channel 3	Pass	(1)
Channel 4	Pass	(1)
Channel 5	Pass	(1)
Channel 6	Pass	(1)
Channel 7	Pass	(1)
Channel 8	Pass	(1)
@ 1kHz		
Channel 1	Pass	(1)
Channel 2	Pass	(1)
Channel 3	Pass	(1)
Channel 4	Pass	(1)
Channel 5	Pass	(1)
Channel 6	Pass	(1)
Channel 7	Pass	(1)
Channel 8	Pass	(1)
Bridge-Completion and Shunt Check		

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
120R Quarter Bridge Completion									
Channel 1								Pass	(1)
Channel 2								Pass	(1)
Channel 3								Pass	(1)
Channel 4								Pass	(1)
Channel 5								Pass	(1)
Channel 6								Pass	(1)
Channel 7								Pass	(1)
Channel 8								Pass	(1)
350R Quarter Bridge Completion									
Channel 1								Pass	(1)
Channel 2								Pass	(1)
Channel 3								Pass	(1)
Channel 4								Pass	(1)
Channel 5								Pass	(1)
Channel 6								Pass	(1)
Channel 7								Pass	(1)
Channel 8								Pass	(1)
1000R Quarter Bridge Completion									
Channel 1								Pass	(1)
Channel 2								Pass	(1)
Channel 3								Pass	(1)
Channel 4								Pass	(1)
Channel 5								Pass	(1)
Channel 6								Pass	(1)
Channel 7								Pass	(1)
Channel 8								Pass	(1)
Shunt Resistor function check									
Channel 1								Pass	(1)
Channel 2								Pass	(1)
Channel 3								Pass	(1)
Channel 4								Pass	(1)
Channel 5								Pass	(1)
Channel 6								Pass	(1)
Channel 7								Pass	(1)
Channel 8								Pass	(1)
IEPE Check									
IEPE Current Excitation									
CH1:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH2:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH3:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH4:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH5:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH6:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH7:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
CH8:									
@ 2mA								Pass	(1)
@ 10mA								Pass	(1)
@ 20mA								Pass	(1)
IEPE Compliance Voltage									
Channel 1								Pass	(1)
Channel 2								Pass	(1)
Channel 3								Pass	(1)
Channel 4								Pass	(1)
Channel 5								Pass	(1)
Channel 6								Pass	(1)
Channel 7								Pass	(1)
Channel 8								Pass	(1)

11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status	
AUX-Input Check									
External Reference								Pass	(1)
Hardware Check (Selftest)								Pass	(1)
Hardware Check (Excitation Test)								Pass	(1)
47.5 °C @ BoardTemp	47.5 °C	46.5 °C	37.5 °C	57.5 °C		-1,0 °C	10%	Pass	(1)

Ende des Kalibrierscheines / *End of Calibration Certificate*