



DEWETRON GmbH

Parking 4
8074 Grambach
Austria



AAT2560695
Akkreditierung Austria 0632
15.12.2025

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-1820-POWER

Herstellernummer
Serial number A1192026

Auftraggeber
Customer

Kalibriernummer
Order number AAT2560695

Anzahl der Seiten des Kalibrierscheines
Number of pages of the certificate 7

Datum der Kalibrierung
Date of calibration 15.12.2025

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.

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

15.12.2025

Daniel Kurzmann

Stefan Strohmaier

1. Kalibriergegenstand / Calibration object

8 Channel Data Acquisition DEWETRON TRION-1820-POWER, S/N: A1192026

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-Active-Power-1-Phase_CT_Akkred, Rev. 2.20

3. Messergebnisse / Measurement results

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

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

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

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

4. Messunsicherheit / Measurement uncertainty

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

Ein Anteil für die Langzeitstabilität des Kalibriergegenstandes ist nicht enthalten.

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

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

5. Umgebungsbedingungen / environmental conditions

Temperatur / *Temperature*: 22,5 °C

Rel. Luftfeuchte / *Rel. humidity*: 33,1 % r.H.

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

6. Auftragsnummer / Reference Number

7. Status / Status

PASS ()

AS-FOUND: Eingangskalibration / *Incoming calibration*

AS-LEFT: Ausgangskalibration / *Outgoing calibration*

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

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

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

8. Verwendete Fußnoten / Used foot notes:

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

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

9. Kommentare / Comments

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

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



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10. Verwendete Normale / Standards used

<u>Asset</u>	<u>Description</u>	<u>Serial Number</u>	<u>Certificate No.</u>	<u>Cal Date</u>	<u>Due Date</u>
5522A 02	5522A CALIBRATOR	6032901	SA01377628	3-Mär-2025	3-Mär-2026
6105A 02	6105A Electrical Power Standard	535977931	0101686	6-Mär-2025	6-Mär-2026
A40B-1A 01	A40B-1A Precision AC Current Shunt	679285953	0101291	13-Feb-2025	13-Feb-2026
Agilent 3458A 02	3458A Multimeter	2823A24893	70082025	21-Aug-2025	21-Aug-2026



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11. Testergebnisse / Test results

Test Description	True Value	Test Result	Lower limit	Upper limit	Exp Uncert	Error	% of Tol	Status
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Current Temperature Calibrator: 25.6°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-03 Gleichstromstärke v1.0_2024-07-04.xlsx-02C
 CAL-KV-03 Gleichstromstärke v1.0_2024-07-04.xlsx-06C
 CAL-KV-04 Wechselstromstärke v1.0_2024-07-04.xlsx-02C
 CAL-KV-04 Wechselstromstärke v1.0_2024-07-04.xlsx-06
 CAL-KV-08 Gleichstromleistung v1.0_2024-07-04.xlsx-01C
 CAL-KV-09 Wechselstromwirkleistung v1.0_2024-07-04.xlsx-01C

DEWE3 device S/N: CB210017

Oxygen Version: 7.7.1
 TRION API: 7.7.1.8228"
 TRION Board Type: TRION-1820-POWER-4
 TRION Board S/N: A1192026
 TRION Board FW: 0085

TRION-SUB Type: TRION-SUB-CT
 @I1: SN: 1750219

All Tests done with appropriate Range
 SampleRate for all Tests: 2000000S/s
 Filter Type/Frequency for U: Butterworth/8th order/600kHz
 Filter Type/Frequency for I: Butterworth/8th order/600kHz
 Update Rate of power group: 3s

Frequency Accuracy:
 DEWE3 : ±0.005% of reading ± 1 mHz

Voltage Accuracy:
 DC : ±0.02% of reading ±0.02% of range
 >0.5Hz to 1kHz : ±0.03% of reading
 >1kHz to 5kHz : ±0.15% of reading
 >5kHz to 10kHz : ±0.35% of reading
 >10kHz to 50kHz : ±0.6% of reading
 >50kHz to 300kHz : ±(0.02% * f[kHz]) of reading

Current Accuracy:
 DC without zero add : ±50µA

DC : ±0.02% of reading ±0.02% of range
 >0.5Hz to 10kHz : ±0.03% of reading
 >10kHz to 500kHz : ±(0.006% * f[kHz]) of reading
 >500kHz to 3000kHz : ±(0.006% * f[kHz]) of reading

Power Accuracy with PF=1:
 DC with no zero level add : ±0.03% of range

DC : ±0.03% of reading ±0.03% of range
 >0.5Hz to 1kHz : ±0.04% of reading
 >1kHz to 5kHz : ±0.2% of reading
 >5kHz to 10kHz : ±0.5% of reading
 >10kHz to 50kHz : ±(0.5% + 0.05% * f[kHz]) of reading

Influence of PF : add 0.01 % * f[Hz]/50 * sqrt(1/PF²-1)

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AC Power Calibration

Range U: 1000V Range I: 1A (appropriate range used for measurement)

Following tests @ 20Hz

Frequency	20.00000 Hz	19.99989 Hz	19.99800 Hz	20.00200 Hz		-0,00011 Hz		5.55%	Pass	(1)

Phase 1										
Test @ 10% U 10% I										
Voltage U1	100.00000 V	99.99576 V	99.97000 V	100.03000 V	13.00 e-03 V	-0,00424 V		14.1%	Pass	
Current I1	0.100000 A	0.099999 A	0.099970 A	0.100030 A	15.00 e-06 A	-0,000001 A		4.04%	Pass	
Power @ PF 1	10.000000 W	9.999380 W	9.996000 W	10.004000 W	2.00 e-03 W	-0,000620 W		15.5%	Pass	
Test @ 50% U 20% I										
Voltage U1	500.00000 V	499.97773 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,02227 V		14.8%	Pass	



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Current I1	0.200000 A	0.199996 A	0.199940 A	0.200060 A	23.00 e-06 A	-0,000004 A	6.31%	Pass
Power @ PF 1	100.00000 W	99.99346 W	99.96000 W	100.04000 W	20.00 e-03 W	-0,00654 W	16.3%	Pass
Test @ 50% U 50% I								
Voltage U1	500.00000 V	499.97813 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,02187 V	14.6%	Pass
Current I1	0.500000 A	0.499989 A	0.499850 A	0.500150 A	56.00 e-06 A	-0,000011 A	7.42%	Pass
Power @ PF 1	250.00000 W	249.98344 W	249.90000 W	250.10000 W	50.00 e-03 W	-0,01656 W	16.6%	Pass
Test @ 50% U 100% I								
Voltage U1	500.00000 V	499.97847 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,02153 V	14.4%	Pass
Current I1	1.000000 A	0.999969 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000031 A	10.3%	Pass
Power @ PF 1	500.00000 W	499.962940 W	499.800000 W	500.200000 W	100.00 e-03 W	-0,037060 W	18.5%	Pass
Test @ 90% U 90% I								
Voltage U1	900.00000 V	899.97215 V	899.73000 V	900.27000 V	89.00 e-03 V	-0,02785 V	10.3%	Pass
Current I1	0.900000 A	0.899970 A	0.899730 A	0.900270 A	100.00 e-06 A	-0,000030 A	11.2%	Pass
Power @ PF 1	810.00000 W	809.94757 W	809.67600 W	810.32400 W	160.00 e-03 W	-0,05243 W	16.2%	Pass
Test @ 100% U 100% I								
Voltage U1	1000.00000 V	999.97160 V	999.70000 V	1000.30000 V	97.00 e-03 V	-0,02840 V	9.47%	Pass
Current I1	1.000000 A	0.999961 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000039 A	13.1%	Pass
Power @ PF 1	1000.00000 W	999.93211 W	999.60000 W	1000.40000 W	200.00 e-03 W	-0,06789 W	17%	Pass

Following tests @ 53Hz								
Frequency	53.00000 Hz	52.99971 Hz	52.99635 Hz	53.00365 Hz		-0,00029 Hz	7.95%	Pass (1)

Phase 1								
Test @ 10% U 10% I								
Voltage U1	100.00000 V	99.99712 V	99.97000 V	100.03000 V	13.00 e-03 V	-0,00288 V	9.6%	Pass
Current I1	0.100000 A	0.099998 A	0.099970 A	0.100030 A	15.00 e-06 A	-0,000002 A	5.23%	Pass
Power @ PF 1	10.000000 W	9.999479 W	9.996000 W	10.004000 W	2.00 e-03 W	-0,000521 W	13%	Pass
Test @ 50% U 20% I								
Voltage U1	500.00000 V	499.98363 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01637 V	10.9%	Pass
Current I1	0.200000 A	0.199995 A	0.199940 A	0.200060 A	23.00 e-06 A	-0,000005 A	8.02%	Pass
Power @ PF 1	100.00000 W	99.99415 W	99.96000 W	100.04000 W	20.00 e-03 W	-0,00585 W	14.6%	Pass
Test @ 50% U 50% I								
Voltage U1	500.00000 V	499.98331 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01669 V	11.1%	Pass
Current I1	0.500000 A	0.499985 A	0.499850 A	0.500150 A	56.00 e-06 A	-0,000015 A	9.94%	Pass
Power @ PF 1	250.00000 W	249.98415 W	249.90000 W	250.10000 W	50.00 e-03 W	-0,01585 W	15.8%	Pass
Power @ PF 0.9 cap	225.00000 W	224.98223 W	224.89845 W	225.10155 W	45.00 e-03 W	-0,01777 W	17.5%	Pass
Power @ PF 0.9 ind	225.00000 W	224.98921 W	224.89845 W	225.10155 W	45.00 e-03 W	-0,01079 W	10.6%	Pass
Power @ PF 0.5 cap	125.00000 W	124.98484 W	124.92705 W	125.07295 W	29.00 e-03 W	-0,01516 W	20.8%	Pass
Power @ PF 0.5 ind	125.00000 W	124.99902 W	124.92705 W	125.07295 W	29.00 e-03 W	-0,00098 W	1.35%	Pass
Power @ PF 0.1 cap	25.000000 W	24.990420 W	24.963633 W	25.036367 W	16.00 e-03 W	-0,009580 W	26.3%	Pass
Power @ PF 0.1 ind	25.000000 W	25.006707 W	24.963633 W	25.036367 W	16.00 e-03 W	0,006707 W	18.4%	Pass
Test @ 50% U 100% I								
Voltage U1	500.00000 V	499.98302 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01698 V	11.3%	Pass
Current I1	1.000000 A	0.999965 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000035 A	11.5%	Pass
Power @ PF 1	500.00000 W	499.96563 W	499.80000 W	500.20000 W	100.00 e-03 W	-0,03437 W	17.2%	Pass
Test @ 90% U 90% I								
Voltage U1	900.00000 V	899.97849 V	899.73000 V	900.27000 V	89.00 e-03 V	-0,02151 V	7.97%	Pass
Current I1	0.900000 A	0.899966 A	0.899730 A	0.900270 A	100.00 e-06 A	-0,000034 A	12.5%	Pass
Power @ PF 1	810.00000 W	809.95015 W	809.67600 W	810.32400 W	160.00 e-03 W	-0,04985 W	15.4%	Pass
Test @ 100% U 100% I								
Voltage U1	1000.00000 V	999.97740 V	999.70000 V	1000.30000 V	97.00 e-03 V	-0,02260 V	7.53%	Pass
Current I1	1.000000 A	0.999959 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000041 A	13.7%	Pass
Power @ PF 1	1000.00000 W	999.93609 W	999.60000 W	1000.40000 W	200.00 e-03 W	-0,06391 W	16%	Pass

Following tests @ 180Hz								
Frequency	180.00000 Hz	179.99899 Hz	179.99000 Hz	180.01000 Hz		-0,00101 Hz	10.1%	Pass (1)

Phase 1								
Test @ 50% U 50% I								
Voltage U1	500.00000 V	499.98802 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01198 V	7.99%	Pass
Current I1	0.500000 A	0.499990 A	0.499850 A	0.500150 A	56.00 e-06 A	-0,000010 A	6.71%	Pass
Power @ PF 1	250.00000 W	249.98893 W	249.90000 W	250.10000 W	50.00 e-03 W	-0,01107 W	11.1%	Pass
Power @ PF 0.9 cap	225.00000 W	224.98454 W	224.87077 W	225.12923 W	61.00 e-03 W	-0,01546 W	12%	Pass
Power @ PF 0.9 ind	225.00000 W	224.99679 W	224.87077 W	225.12923 W	61.00 e-03 W	-0,00321 W	2.48%	Pass
Power @ PF 0.5 cap	125.00000 W	124.98382 W	124.87206 W	125.12794 W	41.00 e-03 W	-0,01618 W	12.6%	Pass
Power @ PF 0.5 ind	125.00000 W	125.00567 W	124.87206 W	125.12794 W	41.00 e-03 W	0,00567 W	4.43%	Pass

Following tests @ 400Hz								
Frequency	400.00000 Hz	399.99777 Hz	399.97900 Hz	400.02100 Hz		-0,00223 Hz	10.6%	Pass (1)

Phase 1								
Test @ 10% U 10% I								
Voltage U1	100.00000 V	99.99873 V	99.97000 V	100.03000 V	13.00 e-03 V	-0,00127 V	4.24%	Pass
Current I1	0.100000 A	0.099999 A	0.099970 A	0.100030 A	15.00 e-06 A	-0,000001 A	2.56%	Pass
Power @ PF 1	10.000000 W	9.999721 W	9.996000 W	10.004000 W	2.00 e-03 W	-0,000279 W	6.97%	Pass
Test @ 50% U 20% I								
Voltage U1	500.00000 V	499.98933 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01067 V	7.11%	Pass



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Current I1	0.200000 A	0.199997 A	0.199940 A	0.200060 A	23.00 e-06 A	-0,000003 A	5.16%	Pass
Power @ PF 1	100.00000 W	99.99616 W	99.96000 W	100.04000 W	20.00 e-03 W	-0,00384 W	9.59%	Pass
Test @ 50% U 50% I								
Voltage U1	500.00000 V	499.98676 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01324 V	8.83%	Pass
Current I1	0.500000 A	0.499990 A	0.499850 A	0.500150 A	56.00 e-06 A	-0,000010 A	6.85%	Pass
Power @ PF 1	250.00000 W	249.98819 W	249.90000 W	250.10000 W	50.00 e-03 W	-0,01181 W	11.8%	Pass
Power @ PF 0.9 cap	225.00000 W	224.97347 W	224.82282 W	225.17718 W	61.00 e-03 W	-0,02653 W	15%	Pass
Power @ PF 0.9 ind	225.00000 W	225.00643 W	224.82282 W	225.17718 W	61.00 e-03 W	0,00643 W	3.63%	Pass
Power @ PF 0.5 cap	125.00000 W	124.96227 W	124.77679 W	125.22321 W		-0,03773 W	16.9%	Pass (1)
Power @ PF 0.5 ind	125.00000 W	125.02677 W	124.77679 W	125.22321 W		0,02677 W	12%	Pass (1)
Test @ 50% U 100% I								
Voltage U1	500.00000 V	499.98609 V	499.85000 V	500.15000 V	56.00 e-03 V	-0,01391 V	9.27%	Pass
Current I1	1.000000 A	0.999978 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000022 A	7.22%	Pass
Power @ PF 1	500.00000 W	499.97517 W	499.80000 W	500.20000 W	100.00 e-03 W	-0,02483 W	12.4%	Pass
Test @ 90% U 90% I								
Voltage U1	900.00000 V	899.99100 V	899.73000 V	900.27000 V	89.00 e-03 V	-0,00900 V	3.33%	Pass
Current I1	0.900000 A	0.899978 A	0.899730 A	0.900270 A	100.00 e-06 A	-0,000022 A	8.18%	Pass
Power @ PF 1	810.00000 W	809.97186 W	809.67600 W	810.32400 W	160.00 e-03 W	-0,02814 W	8.68%	Pass
Test @ 100% U 100% I								
Voltage U1	1000.00000 V	999.99219 V	999.70000 V	1000.30000 V	97.00 e-03 V	-0,00781 V	2.6%	Pass
Current I1	1.000000 A	0.999973 A	0.999700 A	1.000300 A	110.00 e-06 A	-0,000027 A	9.09%	Pass
Power @ PF 1	1000.00000 W	999.96478 W	999.60000 W	1000.40000 W	200.00 e-03 W	-0,03522 W	8.8%	Pass

AC Voltage Calibration								
Test @ 100V_RMS @ 1000Hz								
Channel U1	100.00000 V	100.00202 V	99.97000 V	100.03000 V	29.00 e-03 V	0,00202 V	6.72%	Pass
Test @ 100V_RMS @ 10000Hz								
Channel U1	100.00000 V	100.07318 V	99.65000 V	100.35000 V	32.00 e-03 V	0,07318 V	20.9%	Pass
Test @ 100V RMS @ 30000Hz								
Channel U1	100.00000 V	99.99239 V	99.40000 V	100.60000 V	160.00 e-03 V	-0,00761 V	1.27%	Pass
AC Current Calibration								
Test @ 0.1A_RMS @ 1000Hz								
Channel I1	0.100000 A	0.100009 A	0.099970 A	0.100030 A	65.00 e-06 A	0,000009 A	28.5%	Pass
DC Power Calibration								
Range U: 1000V Range I: 1A (appropriate range used for measurement)								

Phase 1								
Test @ 0% U 0% I								
Voltage U1	0.00000 V	0.05170 V	-0.20000 V	0.20000 V	140.00 e-06 V	0,05170 V	25.9%	Pass
Current I1	0.000000 A	-0.000002 A	-0.000073 A	0.000073 A	27.00 e-09 A	-0,000002 A	2.11%	Pass
Power	0.000000 W	-0.000000 W	-0.600000 W	0.600000 W		0,000000 W	1.29e-005%	Pass (1)
Test @ 5% U 10% I								
Voltage U1	50.00000 V	50.04981 V	49.79000 V	50.21000 V	1.50 e-03 V	0,04981 V	23.7%	Pass
Current I1	0.100000 A	0.100001 A	0.099910 A	0.100090 A	9.60 e-06 A	0,000001 A	0.606%	Pass
Power	5.000000 W	5.005009 W	4.398500 W	5.601500 W	1.00 e-03 W	0,005009 W	0.833%	Pass
Test @ 5% U 2% I								
Voltage U1	50.00000 V	50.04836 V	49.79000 V	50.21000 V	1.50 e-03 V	0,04836 V	23%	Pass
Current I1	0.020000 A	0.020000 A	0.019926 A	0.020074 A	2.80 e-06 A	0,000000 A	0.311%	Pass
Power	1.000000 W	1.000956 W	0.399700 W	1.600300 W	210.00 e-06 W	0,000956 W	0.159%	Pass
Test @ 50% U 20% I								
Voltage U1	500.00000 V	500.03049 V	499.70000 V	500.30000 V	13.00 e-03 V	0,03049 V	10.2%	Pass
Current I1	0.200000 A	0.199999 A	0.199860 A	0.200140 A	29.00 e-06 A	-0,000001 A	0.929%	Pass
Power	100.00000 W	100.00544 W	99.37000 W	100.63000 W		0,00544 W	0.864%	Pass (1)
Test @ 30% U 30% I								
Voltage U1	300.00000 V	300.03756 V	299.74000 V	300.26000 V	7.80 e-03 V	0,03756 V	14.4%	Pass
Current I1	0.300000 A	0.300007 A	0.299790 A	0.300210 A	42.00 e-06 A	0,000007 A	3.4%	Pass
Power	90.00000 W	90.01341 W	89.37300 W	90.62700 W		0,01341 W	2.14%	Pass (1)
Test @ 5% U 50% I								
Voltage U1	50.00000 V	50.04745 V	49.79000 V	50.21000 V	1.50 e-03 V	0,04745 V	22.6%	Pass
Current I1	0.500000 A	0.499999 A	0.499750 A	0.500250 A	74.00 e-06 A	-0,000001 A	0.5%	Pass
Power	25.00000 W	25.02366 W	24.39250 W	25.60750 W	5.30 e-03 W	0,02366 W	3.9%	Pass
Test @ -50% U -50% I								
Voltage U1	-500.00000 V	-499.93120 V	-500.30000 V	-499.70000 V	13.00 e-03 V	0,06880 V	22.9%	Pass
Current I1	-0.500000 A	-0.499994 A	-0.500250 A	-0.499750 A	74.00 e-06 A	0,000006 A	2.23%	Pass
Power	250.00000 W	249.96282 W	249.32500 W	250.67500 W		-0,03718 W	5.51%	Pass (1)
Test @ 5% U 100% I								
Voltage U1	50.00000 V	50.04757 V	49.79000 V	50.21000 V	1.50 e-03 V	0,04757 V	22.7%	Pass
Current I1	1.000000 A	0.999995 A	0.999550 A	1.000450 A	93.00 e-06 A	-0,000005 A	1.11%	Pass
Power	50.00000 W	50.04732 W	49.38500 W	50.61500 W	11.00 e-03 W	0,04732 W	7.69%	Pass
Test @ 70% U 70% I								
Voltage U1	700.00000 V	700.01886 V	699.66000 V	700.34000 V	18.00 e-03 V	0,01886 V	5.55%	Pass



DEWETRON GmbH
 Parking 4
 8074 Grambach
 AUSTRIA

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

AAT2560695
Akkreditierung Austria 0632
15.12.2025

11. Testergebnisse / Test results

<u>Test Description</u>	<u>True Value</u>	<u>Test Result</u>	<u>Lower limit</u>	<u>Upper limit</u>	<u>Exp Uncert</u>	<u>Error</u>	<u>% of Tol</u>	<u>Status</u>
Current I1	0.700000 A	0.699986 A	0.699610 A	0.700390 A	82.00 e-06 A	-0,000014 A	3.46%	Pass
Power	490.00000 W	490.00375 W	489.25300 W	490.74700 W		0,00375 W	0.502%	Pass (1)
Test @ 100% U 100% I								
Voltage U1	1000.00000 V	1000.00397 V	999.60000 V	1000.40000 V	26.00 e-03 V	0,00397 V	0.992%	Pass
Current I1	1.000000 A	0.999982 A	0.999550 A	1.000450 A	93.00 e-06 A	-0,000018 A	4.09%	Pass
Power	1000.00000 W	999.98553 W	999.10000 W	1000.90000 W		-0,01447 W	1.61%	Pass (1)

Ende des Kalibrierscheines / End of Calibration Certificate

