

Calibration Certificate Kalibrierzertifikat

working standard certificate no.
Werkskalibrierschein Nr.

imc_0050898

object under test
zu testender Gegenstand

Bridge, current and voltage amplifier and
temperature measurement unit "UNI2-8",
Linear

type
Typ

imc CRONOSflex, CRFX/UNI2-8

serial number
Seriennummer

156934 (module s/n 602669)

customer's description
Kundenbezeichnung

manufacturer
Hersteller

imc Meßsysteme GmbH

customer
Auftraggeber

imc Meßsysteme GmbH

customer order number
Kundenauftragsnummer

Appl./SLE

imc order number
imc Auftragsnummer

KA17/34653

date of calibration
Kalibrierdatum

2017-03-20

result of calibration
Ergebnis

pass

Measured deviation within allowed deviation.
Gemessene Abweichung innerhalb der zulässigen Abweichung.

All tests were performed in accordance with DIN EN ISO 9001 using modern technology. This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the international system of units (SI). The user is obliged to have the object recalibrated at appropriate intervals. This certificate can only be reproduced in its entire form. No excerpts may be used nor may any changes be made without full express consent.

Die Tests wurden mit aller Sorgfalt und in Anwendung der DIN EN ISO 9001 durchgeführt. Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem internationalen Einheitensystem (SI). Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich. Dieses Zertifikat darf nur vollständig und unverändert verbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung von imc.

issue date
Ausstellungsdatum

2017-07-11

stamp *
Stempel

Quality
Assurance

inspected by
geprüft durch

i.A. Dipl.-Ing. M. Scheibner-Aden *

SSA *

* Electronically created documents are valid without signature and company's stamp.
In elektronischer Form erstellte Dokumente sind ohne Unterschrift und Firmenstempel gültig.

Calibration Certificate Kalibrierzertifikat

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calibration procedure
Kalibrierverfahren

The calibration was performed by comparing the value indicated by the standard instrument with the value indicated by the calibrated object. All procedures have been developed by imc itself. The certificates and reports of measured values are archived electronically and can be ordered retroactively. The members of our quality assurance team are happy to assist you if you have any question about calibration.

See www.imc-berlin.de/en => Customer Support or call +49-30-467090-26, e-mail hotline@imc-berlin.de .

Die Kalibrierung erfolgte durch Vergleich der Anzeige der verwendeten Normale mit der Anzeige des Kalibriergegenstandes. Sämtliche Verfahren sind von imc selbst entwickelte Verfahren. Die Zertifikate und Messwert-protokolle werden elektronisch archiviert und sind nachlieferbar. Bei Fragen zur Kalibrierung stehen Ihnen die Mitarbeiter unserer Qualitätssicherung gerne zur Verfügung.

Siehe www.imc-berlin.de => Kundendienst oder Telefon +49-30-467090-26, e-Mail hotline@imc-berlin.de .

calibration software

3.2.12

Kalibriersoftware

calibration procedure

ID #1.610: CRFX/UNI2-8 imc w/o Type K, Rev. 2 (released 2015-10-06)

Kalibrieranweisung

ambient conditions

temperature

relative humidity

Umgebungsbedingungen

Temperatur

relative Feuchte

28,9 °C

28.9%

uncertainty of measurement

The maximum tolerance of the used measurement standards is stated within a confidence interval of 95 %.

Messunsicherheit

Angegeben ist die maximale Toleranz der verwendeten Prüfmittel mit einem Vertrauensintervall von 95 %.

appraisal

The appraisal states the ratio of the measured deviation and the allowed deviation taking into account the uncertainty of measurement.

Toleranzausnutzung

Die Toleranzausnutzung bewertet das Verhältnis der gemessenen Abweichung zur zulässigen Abweichung unter Berücksichtigung der Messunsicherheit.

test station

PKJ008

Prüfplatz

measurement standards

PM no.

description

calibration certificate

last calibration

Messnormale

PM-Nr.

Bezeichnung

Kalibrierzertifikat

letzte Kalibrierung

350

FLUKE 5500A

E43582, D-K-15070-01-01,
2016-12

2016-12-23

351

Multiplexer (0,005,
Rev.10)

20151222_085131

2015-12-22

The measuring equipment used is subject to imc's internal measuring equipment monitoring; it can be identified by the respective PM number.

Die verwendeten Prüfmittel und Normale werden über die imc Prüfmittelnnummer (PM-Nr.) identifiziert.

device's software

2.8R7 SP3 (2016-04-22)

Gerätesoftware

device's serial number

156934

Geräteseriennummer

module address

40 (hex)

Moduladresse

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measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±50,0 V						
<i>Messbereich (nominell)</i>								
1	-50,0048 V	-50,0000 V	±50 mV	-4,8 mV	3,3 mV	16 %	pass	
	-20,6 µV	0 µV	±25 mV	-20,6 µV	1,0 µV	0 %	pass	
	50,0045 V	50,0000 V	±50 mV	4,5 mV	3,3 mV	16 %	pass	
			±90 ppm	-2,6 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
2	-50,0048 V	-50,0000 V	±50 mV	-4,8 mV	3,3 mV	16 %	pass	
	32,3 µV	0 µV	±25 mV	32,3 µV	1,0 µV	0 %	pass	
	50,0045 V	50,0000 V	±50 mV	4,5 mV	3,3 mV	16 %	pass	
			±90 ppm	-3,5 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
3	-50,0048 V	-50,0000 V	±50 mV	-4,8 mV	3,3 mV	16 %	pass	
	-1,2 µV	0 µV	±25 mV	-1,2 µV	1,0 µV	0 %	pass	
	50,0046 V	50,0000 V	±50 mV	4,6 mV	3,3 mV	16 %	pass	
			±90 ppm	-2,6 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
4	-50,0052 V	-50,0000 V	±50 mV	-5,2 mV	3,3 mV	17 %	pass	
	47,4 µV	0 µV	±25 mV	47,4 µV	1,0 µV	0 %	pass	
	50,0045 V	50,0000 V	±50 mV	4,5 mV	3,3 mV	16 %	pass	
			±90 ppm	-7,9 ppm	3,3 ppm	12 %	pass	rel. linearity (to nom. range)
5	-50,0055 V	-50,0000 V	±50 mV	-5,5 mV	3,3 mV	17 %	pass	
	-17,1 µV	0 µV	±25 mV	-17,1 µV	1,0 µV	0 %	pass	
	50,0050 V	50,0000 V	±50 mV	5,0 mV	3,3 mV	16 %	pass	
			±90 ppm	-4,6 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
6	-50,0052 V	-50,0000 V	±50 mV	-5,2 mV	3,3 mV	17 %	pass	
	-80,9 µV	0 µV	±25 mV	-80,9 µV	1,0 µV	0 %	pass	
	50,0046 V	50,0000 V	±50 mV	4,6 mV	3,3 mV	16 %	pass	
			±90 ppm	-3,7 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
7	-50,0050 V	-50,0000 V	±50 mV	-5,0 mV	3,3 mV	16 %	pass	
	100,4 µV	0 µV	±25 mV	100,4 µV	1,0 µV	0 %	pass	
	50,0049 V	50,0000 V	±50 mV	4,9 mV	3,3 mV	16 %	pass	
			±90 ppm	-2,6 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
8	-50,0057 V	-50,0000 V	±50 mV	-5,7 mV	3,3 mV	18 %	pass	
	-58,3 µV	0 µV	±25 mV	-58,3 µV	1,0 µV	0 %	pass	
	50,0048 V	50,0000 V	±50 mV	4,8 mV	3,3 mV	16 %	pass	
			±90 ppm	-8,1 ppm	3,3 ppm	13 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±25,0 V						
<i>Messbereich (nominell)</i>								
1	-25,0004 V	-25,0000 V	±25 mV	-406 µV	1,3 mV	7 %	pass	
	10,6 µV	0 µV	±12,5 mV	10,6 µV	1,0 µV	0 %	pass	
	25,0001 V	25,0000 V	±25 mV	148 µV	1,3 mV	6 %	pass	
			±90 ppm	-5,6 ppm	3,3 ppm	10 %	pass	rel. linearity (to nom. range)
2	-25,0005 V	-25,0000 V	±25 mV	-470 µV	1,3 mV	7 %	pass	
	-2,5 µV	0 µV	±12,5 mV	-2,5 µV	1,0 µV	0 %	pass	
	25,0001 V	25,0000 V	±25 mV	125 µV	1,3 mV	6 %	pass	
			±90 ppm	-6,8 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
3	-25,0004 V	-25,0000 V	±25 mV	-404 µV	1,3 mV	7 %	pass	
	-14,3 µV	0 µV	±12,5 mV	-14,3 µV	1,0 µV	0 %	pass	
	25,0001 V	25,0000 V	±25 mV	57 µV	1,3 mV	5 %	pass	
			±90 ppm	-6,4 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
4	-25,0005 V	-25,0000 V	±25 mV	-508 µV	1,3 mV	7 %	pass	
	-49,1 µV	0 µV	±12,5 mV	-49,1 µV	1,0 µV	0 %	pass	
	25,0002 V	25,0000 V	±25 mV	182 µV	1,3 mV	6 %	pass	
			±90 ppm	-4,6 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
5	-25,0007 V	-25,0000 V	±25 mV	-711 µV	1,3 mV	8 %	pass	
	-70,4 µV	0 µV	±12,5 mV	-70,4 µV	1,0 µV	1 %	pass	
	25,0003 V	25,0000 V	±25 mV	254 µV	1,3 mV	6 %	pass	
			±90 ppm	-6,3 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
6	-25,0006 V	-25,0000 V	±25 mV	-617 µV	1,3 mV	8 %	pass	
	-3,6 µV	0 µV	±12,5 mV	-3,6 µV	1,0 µV	0 %	pass	
	24,9999 V	25,0000 V	±25 mV	-131 µV	1,3 mV	6 %	pass	
			±90 ppm	-14,8 ppm	3,3 ppm	20 %	pass	rel. linearity (to nom. range)
7	-25,0002 V	-25,0000 V	±25 mV	-224 µV	1,3 mV	6 %	pass	
	-3,5 µV	0 µV	±12,5 mV	-3,5 µV	1,0 µV	0 %	pass	
	25,0005 V	25,0000 V	±25 mV	506 µV	1,3 mV	7 %	pass	
			±90 ppm	5,8 ppm	3,3 ppm	10 %	pass	rel. linearity (to nom. range)

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measurement mode Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±25,0 V						
Messbereich (nominell)								
8	-25,0006 V	-25,0000 V	±25 mV	-626 µV	1,3 mV	8 %	pass	
	-24,4 µV	0 µV	±12,5 mV	-24,4 µV	1,0 µV	0 %	pass	
	25,0005 V	25,0000 V	±25 mV	476 µV	1,3 mV	7 %	pass	
			±90 ppm	-2,0 ppm	3,3 ppm	6 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±10,0 V						
Messbereich (nominell)								
1	-9,99995 V	-10,00000 V	±10 mV	52 µV	550 µV	6 %	pass	
	7,4 µV	0 µV	±5 mV	7,4 µV	1,0 µV	0 %	pass	
	10,00007 V	10,00000 V	±10 mV	69 µV	550 µV	6 %	pass	
			±90 ppm	5,3 ppm	3,3 ppm	10 %	pass	rel. linearity (to nom. range)
2	-9,99995 V	-10,00000 V	±10 mV	47 µV	550 µV	6 %	pass	
	4,3 µV	0 µV	±5 mV	4,3 µV	1,0 µV	0 %	pass	
	10,00005 V	10,00000 V	±10 mV	55 µV	550 µV	6 %	pass	
			±90 ppm	4,6 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
3	-9,99995 V	-10,00000 V	±10 mV	50 µV	550 µV	6 %	pass	
	-7,4 µV	0 µV	±5 mV	-7,4 µV	1,0 µV	0 %	pass	
	10,00006 V	10,00000 V	±10 mV	61 µV	550 µV	6 %	pass	
			±90 ppm	6,3 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
4	-9,99998 V	-10,00000 V	±10 mV	21 µV	550 µV	6 %	pass	
	4,0 µV	0 µV	±5 mV	4,0 µV	1,0 µV	0 %	pass	
	10,00006 V	10,00000 V	±10 mV	57 µV	550 µV	6 %	pass	
			±90 ppm	3,5 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
5	-10,00005 V	-10,00000 V	±10 mV	-52 µV	550 µV	6 %	pass	
	2,5 µV	0 µV	±5 mV	2,5 µV	1,0 µV	0 %	pass	
	10,00013 V	10,00000 V	±10 mV	129 µV	550 µV	7 %	pass	
			±90 ppm	3,6 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
6	-9,99994 V	-10,00000 V	±10 mV	59 µV	550 µV	6 %	pass	
	-2,5 µV	0 µV	±5 mV	-2,5 µV	1,0 µV	0 %	pass	
	9,99999 V	10,00000 V	±10 mV	-6 µV	550 µV	6 %	pass	
			±90 ppm	2,9 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
7	-9,99993 V	-10,00000 V	±10 mV	67 µV	550 µV	6 %	pass	
	6,7 µV	0 µV	±5 mV	6,7 µV	1,0 µV	0 %	pass	
	10,00014 V	10,00000 V	±10 mV	142 µV	550 µV	7 %	pass	
			±90 ppm	9,8 ppm	3,3 ppm	15 %	pass	rel. linearity (to nom. range)
8	-10,00000 V	-10,00000 V	±10 mV	-2 µV	550 µV	6 %	pass	
	3,6 µV	0 µV	±5 mV	3,6 µV	1,0 µV	0 %	pass	
	10,00008 V	10,00000 V	±10 mV	85 µV	550 µV	6 %	pass	
			±90 ppm	3,8 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±5,0 V						
Messbereich (nominell)								
1	-4,99998 V	-5,00000 V	±5 mV	16 µV	300 µV	6 %	pass	
	7,9 µV	0 µV	±2,5 mV	7,9 µV	1,0 µV	0 %	pass	
	5,00003 V	5,00000 V	±5 mV	33 µV	300 µV	7 %	pass	
			±90 ppm	3,3 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
2	-4,99998 V	-5,00000 V	±5 mV	18 µV	300 µV	6 %	pass	
	2,4 µV	0 µV	±2,5 mV	2,4 µV	1,0 µV	0 %	pass	
	5,00003 V	5,00000 V	±5 mV	35 µV	300 µV	7 %	pass	
			±90 ppm	4,8 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
3	-5,00000 V	-5,00000 V	±5 mV	5 µV	300 µV	6 %	pass	
	-7,5 µV	0 µV	±2,5 mV	-7,5 µV	1,0 µV	0 %	pass	
	5,00003 V	5,00000 V	±5 mV	26 µV	300 µV	7 %	pass	
			±90 ppm	4,6 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
4	-5,00001 V	-5,00000 V	±5 mV	-6 µV	300 µV	6 %	pass	
	-1,5 µV	0 µV	±2,5 mV	-1,5 µV	1,0 µV	0 %	pass	
	5,00002 V	5,00000 V	±5 mV	18 µV	300 µV	6 %	pass	
			±90 ppm	1,5 ppm	3,3 ppm	5 %	pass	rel. linearity (to nom. range)
5	-5,00003 V	-5,00000 V	±5 mV	-35 µV	300 µV	7 %	pass	
	-2,8 µV	0 µV	±2,5 mV	-2,8 µV	1,0 µV	0 %	pass	
	5,00005 V	5,00000 V	±5 mV	54 µV	300 µV	7 %	pass	
			±90 ppm	2,5 ppm	3,3 ppm	6 %	pass	rel. linearity (to nom. range)

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measurement mode Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±5,0 V						
Messbereich (nominell)								
6	-5,00003 V	-5,00000 V	±5 mV	-30 µV	300 µV	7 %	pass	
	-1,4 µV	0 µV	±2,5 mV	-1,4 µV	1,0 µV	0 %	pass	
	4,99996 V	5,00000 V	±5 mV	-35 µV	300 µV	7 %	pass	
			±90 ppm	-6,3 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
7	-4,99997 V	-5,00000 V	±5 mV	34 µV	300 µV	7 %	pass	
	7,7 µV	0 µV	±2,5 mV	7,7 µV	1,0 µV	0 %	pass	
	5,00008 V	5,00000 V	±5 mV	77 µV	300 µV	8 %	pass	
			±90 ppm	9,6 ppm	3,3 ppm	14 %	pass	rel. linearity (to nom. range)
8	-5,00002 V	-5,00000 V	±5 mV	-22 µV	300 µV	6 %	pass	
	-20,2 µV	0 µV	±2,5 mV	-20,2 µV	1,0 µV	1 %	pass	
	5,00005 V	5,00000 V	±5 mV	47 µV	300 µV	7 %	pass	
			±90 ppm	6,5 ppm	3,3 ppm	11 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±2,5 V						
Messbereich (nominell)								
1	-2,50000 V	-2,50000 V	±2,5 mV	-5 µV	130 µV	5 %	pass	
	68 nV	0 µV	±1,25 mV	68 nV	1,0 µV	0 %	pass	
	2,50002 V	2,50000 V	±2,5 mV	18 µV	130 µV	6 %	pass	
			±90 ppm	2,6 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
2	-2,50000 V	-2,50000 V	±2,5 mV	-4 µV	130 µV	5 %	pass	
	830 nV	0 µV	±1,25 mV	831 nV	1,0 µV	0 %	pass	
	2,50002 V	2,50000 V	±2,5 mV	16 µV	130 µV	6 %	pass	
			±90 ppm	1,9 ppm	3,3 ppm	6 %	pass	rel. linearity (to nom. range)
3	-2,50000 V	-2,50000 V	±2,5 mV	-4 µV	130 µV	5 %	pass	
	-250 nV	0 µV	±1,25 mV	-251 nV	1,0 µV	0 %	pass	
	2,50002 V	2,50000 V	±2,5 mV	18 µV	130 µV	6 %	pass	
			±90 ppm	2,9 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
4	-2,50001 V	-2,50000 V	±2,5 mV	-13 µV	130 µV	6 %	pass	
	-49 nV	0 µV	±1,25 mV	-50 nV	1,0 µV	0 %	pass	
	2,50001 V	2,50000 V	±2,5 mV	14 µV	130 µV	6 %	pass	
			±90 ppm	0,2 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
5	-2,50003 V	-2,50000 V	±2,5 mV	-31 µV	130 µV	6 %	pass	
	205 nV	0 µV	±1,25 mV	206 nV	1,0 µV	0 %	pass	
	2,50003 V	2,50000 V	±2,5 mV	33 µV	130 µV	7 %	pass	
			±90 ppm	0,3 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
6	-2,50000 V	-2,50000 V	±2,5 mV	-3 µV	130 µV	5 %	pass	
	-1,5 µV	0 µV	±1,25 mV	-1,5 µV	1,0 µV	0 %	pass	
	2,50001 V	2,50000 V	±2,5 mV	14 µV	130 µV	6 %	pass	
			±90 ppm	2,8 ppm	3,3 ppm	7 %	pass	rel. linearity (to nom. range)
7	-2,50000 V	-2,50000 V	±2,5 mV	-4 µV	130 µV	5 %	pass	
	817 nV	0 µV	±1,25 mV	817 nV	1,0 µV	0 %	pass	
	2,50003 V	2,50000 V	±2,5 mV	31 µV	130 µV	6 %	pass	
			±90 ppm	4,9 ppm	3,3 ppm	9 %	pass	rel. linearity (to nom. range)
8	-2,50003 V	-2,50000 V	±2,5 mV	-35 µV	130 µV	7 %	pass	
	-5,3 µV	0 µV	±1,25 mV	-5,3 µV	1,0 µV	1 %	pass	
	2,50003 V	2,50000 V	±2,5 mV	33 µV	130 µV	7 %	pass	
			±90 ppm	1,8 ppm	3,3 ppm	6 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±1,0 V						
Messbereich (nominell)								
1	-1,000006 V	-1,000000 V	±1 mV	-6 µV	55 µV	6 %	pass	
	631 nV	0 µV	±500 µV	631 nV	1,0 µV	0 %	pass	
	1,000011 V	1,000000 V	±1 mV	11 µV	55 µV	7 %	pass	
			±90 ppm	1,6 ppm	3,3 ppm	5 %	pass	rel. linearity (to nom. range)
2	-1,000002 V	-1,000000 V	±1 mV	-2 µV	55 µV	6 %	pass	
	3,7 µV	0 µV	±500 µV	3,7 µV	1,0 µV	1 %	pass	
	1,000012 V	1,000000 V	±1 mV	12 µV	55 µV	7 %	pass	
			±90 ppm	1,1 ppm	3,3 ppm	5 %	pass	rel. linearity (to nom. range)
3	-1,000003 V	-1,000000 V	±1 mV	-3 µV	55 µV	6 %	pass	
	3,2 µV	0 µV	±500 µV	3,2 µV	1,0 µV	1 %	pass	
	1,000012 V	1,000000 V	±1 mV	12 µV	55 µV	7 %	pass	
			±90 ppm	1,3 ppm	3,3 ppm	5 %	pass	rel. linearity (to nom. range)

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imc_0050898

measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±1,0 V						
Messbereich (nominell)								
4	-1,000007 V	-1,000000 V	±1 mV	-7 µV	55 µV	6 %	pass	
	1,7 µV	0 µV	±500 µV	1,7 µV	1,0 µV	1 %	pass	
	1,000008 V	1,000000 V	±1 mV	8 µV	55 µV	6 %	pass	
5	-1,000019 V	-1,000000 V	±1 mV	-19 µV	55 µV	7 %	pass	
	3,9 µV	0 µV	±500 µV	3,9 µV	1,0 µV	1 %	pass	
	1,000022 V	1,000000 V	±1 mV	22 µV	55 µV	8 %	pass	
6	-1,000023 V	-1,000000 V	±1 mV	-23 µV	55 µV	8 %	pass	
	4,8 µV	0 µV	±500 µV	4,8 µV	1,0 µV	1 %	pass	
	1,000007 V	1,000000 V	±1 mV	7 µV	55 µV	6 %	pass	
7	-999,964 mV	-1,000000 V	±1 mV	36 µV	55 µV	9 %	pass	
	13,1 µV	0 µV	±500 µV	13,1 µV	1,0 µV	3 %	pass	
	1,000008 V	1,000000 V	±1 mV	8 µV	55 µV	6 %	pass	
8	-1,000008 V	-1,000000 V	±1 mV	-8 µV	55 µV	6 %	pass	
	1,2 µV	0 µV	±500 µV	1,2 µV	1,0 µV	0 %	pass	
	1,000017 V	1,000000 V	±1 mV	17 µV	55 µV	7 %	pass	
measurement range (nominal)		±500,0 mV						
Messbereich (nominell)								
1	-500,013 mV	-500,000 mV	±500 µV	-13 µV	30 µV	9 %	pass	
	6 nV	0 µV	±250 µV	7 nV	1,0 µV	0 %	pass	
	500,008 mV	500,000 mV	±500 µV	8 µV	30 µV	8 %	pass	
2	-500,015 mV	-500,000 mV	±500 µV	-15 µV	30 µV	9 %	pass	
	-666 nV	0 µV	±250 µV	-667 nV	1,0 µV	1 %	pass	
	500,007 mV	500,000 mV	±500 µV	7 µV	30 µV	7 %	pass	
3	-500,015 mV	-500,000 mV	±500 µV	-15 µV	30 µV	9 %	pass	
	-1,5 µV	0 µV	±250 µV	-1,5 µV	1,0 µV	1 %	pass	
	500,008 mV	500,000 mV	±500 µV	8 µV	30 µV	8 %	pass	
4	-500,016 mV	-500,000 mV	±500 µV	-16 µV	30 µV	9 %	pass	
	-101 nV	0 µV	±250 µV	-101 nV	1,0 µV	0 %	pass	
	500,008 mV	500,000 mV	±500 µV	8 µV	30 µV	8 %	pass	
5	-500,015 mV	-500,000 mV	±500 µV	-15 µV	30 µV	9 %	pass	
	-318 nV	0 µV	±250 µV	-319 nV	1,0 µV	1 %	pass	
	500,007 mV	500,000 mV	±500 µV	7 µV	30 µV	7 %	pass	
6	-500,020 mV	-500,000 mV	±500 µV	-20 µV	30 µV	10 %	pass	
	-2,4 µV	0 µV	±250 µV	-2,4 µV	1,0 µV	1 %	pass	
	500,010 mV	500,000 mV	±500 µV	10 µV	30 µV	8 %	pass	
7	-500,010 mV	-500,000 mV	±500 µV	-10 µV	30 µV	8 %	pass	
	-1,3 µV	0 µV	±250 µV	-1,3 µV	1,0 µV	1 %	pass	
	500,003 mV	500,000 mV	±500 µV	3 µV	30 µV	7 %	pass	
8	-500,021 mV	-500,000 mV	±500 µV	-21 µV	30 µV	10 %	pass	
	-1,6 µV	0 µV	±250 µV	-1,6 µV	1,0 µV	1 %	pass	
	500,007 mV	500,000 mV	±500 µV	7 µV	30 µV	7 %	pass	
measurement range (nominal)		±250,0 mV						
Messbereich (nominell)								
1	-250,006 mV	-250,000 mV	±250 µV	-6 µV	18 µV	10 %	pass	
	49 nV	0 µV	±125 µV	50 nV	1,0 µV	1 %	pass	
	250,003 mV	250,000 mV	±250 µV	3 µV	18 µV	8 %	pass	
			±300 ppm	-7,3 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)

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measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±250,0 mV						
<i>Messbereich (nominell)</i>								
2	-250,007 mV	-250,000 mV	±250 µV	-7 µV	18 µV	10 %	pass	
	-426 nV	0 µV	±125 µV	-426 nV	1,0 µV	1 %	pass	
	250,002 mV	250,000 mV	±250 µV	2 µV	18 µV	8 %	pass	
			±300 ppm	-8,8 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
3	-250,007 mV	-250,000 mV	±250 µV	-7 µV	18 µV	10 %	pass	
	-946 nV	0 µV	±125 µV	-947 nV	1,0 µV	2 %	pass	
	250,002 mV	250,000 mV	±250 µV	2 µV	18 µV	8 %	pass	
			±300 ppm	-7,5 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
4	-250,008 mV	-250,000 mV	±250 µV	-8 µV	18 µV	11 %	pass	
	-106 nV	0 µV	±125 µV	-107 nV	1,0 µV	1 %	pass	
	250,003 mV	250,000 mV	±250 µV	3 µV	18 µV	9 %	pass	
			±300 ppm	-9,6 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
5	-250,010 mV	-250,000 mV	±250 µV	-10 µV	18 µV	11 %	pass	
	-811 nV	0 µV	±125 µV	-811 nV	1,0 µV	1 %	pass	
	250,003 mV	250,000 mV	±250 µV	3 µV	18 µV	8 %	pass	
			±300 ppm	-9,6 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
6	-250,011 mV	-250,000 mV	±250 µV	-11 µV	18 µV	11 %	pass	
	-2,4 µV	0 µV	±125 µV	-2,4 µV	1,0 µV	3 %	pass	
	249,996 mV	250,000 mV	±250 µV	-4 µV	18 µV	9 %	pass	
			±300 ppm	-19,7 ppm	3,3 ppm	8 %	pass	rel. linearity (to nom. range)
7	-250,009 mV	-250,000 mV	±250 µV	-9 µV	18 µV	11 %	pass	
	-2,5 µV	0 µV	±125 µV	-2,5 µV	1,0 µV	3 %	pass	
	250,008 mV	250,000 mV	±250 µV	8 µV	18 µV	10 %	pass	
			±300 ppm	9,4 ppm	3,3 ppm	4 %	pass	rel. linearity (to nom. range)
8	-250,011 mV	-250,000 mV	±250 µV	-11 µV	18 µV	11 %	pass	
	-1,5 µV	0 µV	±125 µV	-1,5 µV	1,0 µV	2 %	pass	
	250,006 mV	250,000 mV	±250 µV	6 µV	18 µV	10 %	pass	
			±300 ppm	-3,5 ppm	3,3 ppm	2 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±100,0 mV						
<i>Messbereich (nominell)</i>								
1	-100,0076 mV	-100,0000 mV	±100 µV	-7,6 µV	9,0 µV	17 %	pass	
	-623 nV	0 µV	±50 µV	-624 nV	1,0 µV	3 %	pass	
	99,9989 mV	100,0000 mV	±100 µV	-1,1 µV	9,0 µV	10 %	pass	
			±90 ppm	-36,9 ppm	3,3 ppm	45 %	pass	rel. linearity (to nom. range)
2	-100,0074 mV	-100,0000 mV	±100 µV	-7,4 µV	9,0 µV	16 %	pass	
	-160 nV	0 µV	±50 µV	-161 nV	1,0 µV	2 %	pass	
	99,9993 mV	100,0000 mV	±100 µV	-719 nV	9,0 µV	10 %	pass	
			±90 ppm	-39,0 ppm	3,3 ppm	47 %	pass	rel. linearity (to nom. range)
3	-100,0070 mV	-100,0000 mV	±100 µV	-7,0 µV	9,0 µV	16 %	pass	
	275 nV	0 µV	±50 µV	275 nV	1,0 µV	3 %	pass	
	100,0001 mV	100,0000 mV	±100 µV	147 nV	9,0 µV	9 %	pass	
			±90 ppm	-37,1 ppm	3,3 ppm	45 %	pass	rel. linearity (to nom. range)
4	-100,0081 mV	-100,0000 mV	±100 µV	-8,1 µV	9,0 µV	17 %	pass	
	-688 nV	0 µV	±50 µV	-689 nV	1,0 µV	3 %	pass	
	99,9991 mV	100,0000 mV	±100 µV	-859 nV	9,0 µV	10 %	pass	
			±90 ppm	-37,9 ppm	3,3 ppm	46 %	pass	rel. linearity (to nom. range)
5	-100,0079 mV	-100,0000 mV	±100 µV	-7,9 µV	9,0 µV	17 %	pass	
	88 nV	0 µV	±50 µV	88 nV	1,0 µV	2 %	pass	
	100,0008 mV	100,0000 mV	±100 µV	782 nV	9,0 µV	10 %	pass	
			±90 ppm	-36,5 ppm	3,3 ppm	44 %	pass	rel. linearity (to nom. range)
6	-100,0070 mV	-100,0000 mV	±100 µV	-7,0 µV	9,0 µV	16 %	pass	
	192 nV	0 µV	±50 µV	192 nV	1,0 µV	2 %	pass	
	100,0003 mV	100,0000 mV	±100 µV	300 nV	9,0 µV	9 %	pass	
			±90 ppm	-35,2 ppm	3,3 ppm	43 %	pass	rel. linearity (to nom. range)
7	-100,0071 mV	-100,0000 mV	±100 µV	-7,1 µV	9,0 µV	16 %	pass	
	383 nV	0 µV	±50 µV	384 nV	1,0 µV	3 %	pass	
	100,0011 mV	100,0000 mV	±100 µV	1,1 µV	9,0 µV	10 %	pass	
			±90 ppm	-33,7 ppm	3,3 ppm	41 %	pass	rel. linearity (to nom. range)
8	-100,0078 mV	-100,0000 mV	±100 µV	-7,8 µV	9,0 µV	17 %	pass	
	96 nV	0 µV	±50 µV	96 nV	1,0 µV	2 %	pass	
	100,0006 mV	100,0000 mV	±100 µV	571 nV	9,0 µV	10 %	pass	
			±90 ppm	-37,0 ppm	3,3 ppm	45 %	pass	rel. linearity (to nom. range)

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measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks	
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen	
measurement range (nominal)		±50,0 mV							
<i>Messbereich (nominell)</i>									
1	-50,0043 mV	-50,0000 mV	±55 µV	-4,3 µV	6,0 µV	19 %	pass		
	45 nV	0 µV	±30 µV	46 nV	1,0 µV	3 %	pass		
	49,9993 mV	50,0000 mV	±55 µV	-694 nV	6,0 µV	12 %	pass		
2	-50,0040 mV	-50,0000 mV	±150 ppm	-50,7 ppm	3,3 ppm	36 %	pass	rel. linearity (to nom. range)	
	-226 nV	0 µV	±55 µV	-4,0 µV	6,0 µV	18 %	pass		
	49,9991 mV	50,0000 mV	±30 µV	-227 nV	1,0 µV	4 %	pass		
3	-50,0036 mV	-50,0000 mV	±150 ppm	-44,6 ppm	3,3 ppm	32 %	pass	rel. linearity (to nom. range)	
	218 nV	0 µV	±55 µV	-3,6 µV	6,0 µV	18 %	pass		
	49,9991 mV	50,0000 mV	±30 µV	218 nV	1,0 µV	4 %	pass		
4	-50,0036 mV	-50,0000 mV	±150 ppm	-50,1 ppm	3,3 ppm	36 %	pass	rel. linearity (to nom. range)	
	-18 nV	0 µV	±55 µV	-3,6 µV	6,0 µV	18 %	pass		
	49,9990 mV	50,0000 mV	±30 µV	-19 nV	1,0 µV	3 %	pass		
5	-50,0042 mV	-50,0000 mV	±150 ppm	-46,1 ppm	3,3 ppm	33 %	pass	rel. linearity (to nom. range)	
	430 nV	0 µV	±55 µV	-4,2 µV	6,0 µV	19 %	pass		
	49,9999 mV	50,0000 mV	±30 µV	431 nV	1,0 µV	5 %	pass		
6	-50,0048 mV	-50,0000 mV	±150 ppm	-51,1 ppm	3,3 ppm	36 %	pass	rel. linearity (to nom. range)	
	-222 nV	0 µV	±55 µV	-4,8 µV	6,0 µV	20 %	pass		
	49,9984 mV	50,0000 mV	±30 µV	-222 nV	1,0 µV	4 %	pass		
7	-50,0033 mV	-50,0000 mV	±150 ppm	-59,6 ppm	3,3 ppm	42 %	pass	rel. linearity (to nom. range)	
	345 nV	0 µV	±55 µV	-1,6 µV	6,0 µV	14 %	pass		
	50,0006 mV	50,0000 mV	±30 µV	-1,6 µV	6,0 µV	14 %	pass		
8	-50,0043 mV	-50,0000 mV	±150 ppm	-33,6 ppm	3,3 ppm	25 %	pass	rel. linearity (to nom. range)	
	-36 nV	0 µV	±55 µV	-3,3 µV	6,0 µV	17 %	pass		
	49,9995 mV	50,0000 mV	±30 µV	346 nV	1,0 µV	4 %	pass		
measurement range (nominal)		±25,0 mV							
<i>Messbereich (nominell)</i>									
1	-25,0025 mV	-25,0000 mV	±27,5 µV	-2,5 µV	4,5 µV	26 %	pass		
	297 nV	0 µV	±15 µV	297 nV	1,0 µV	9 %	pass		
	24,9992 mV	25,0000 mV	±27,5 µV	-761 nV	4,5 µV	19 %	pass		
2	-25,0029 mV	-25,0000 mV	±200 ppm	-78,1 ppm	3,3 ppm	41 %	pass	rel. linearity (to nom. range)	
	-222 nV	0 µV	±27,5 µV	-2,9 µV	4,5 µV	27 %	pass		
	24,9989 mV	25,0000 mV	±15 µV	-223 nV	1,0 µV	8 %	pass		
3	-25,0029 mV	-25,0000 mV	±200 ppm	-72,3 ppm	3,3 ppm	38 %	pass	rel. linearity (to nom. range)	
	88 nV	0 µV	±27,5 µV	-1,1 µV	4,5 µV	20 %	pass		
	24,9991 mV	25,0000 mV	±15 µV	-927 nV	1,0 µV	7 %	pass		
4	-25,0027 mV	-25,0000 mV	±200 ppm	-79,3 ppm	3,3 ppm	41 %	pass	rel. linearity (to nom. range)	
	158 nV	0 µV	±27,5 µV	-2,7 µV	4,5 µV	26 %	pass		
	24,9991 mV	25,0000 mV	±15 µV	159 nV	1,0 µV	8 %	pass		
5	-25,0031 mV	-25,0000 mV	±200 ppm	-77,7 ppm	3,3 ppm	40 %	pass	rel. linearity (to nom. range)	
	270 nV	0 µV	±27,5 µV	-905 nV	4,5 µV	20 %	pass		
	24,9996 mV	25,0000 mV	±15 µV	-433 nV	1,0 µV	8 %	pass		
6	-25,0030 mV	-25,0000 mV	±200 ppm	-82,1 ppm	3,3 ppm	43 %	pass	rel. linearity (to nom. range)	
	-571 nV	0 µV	±27,5 µV	-3,0 µV	4,5 µV	27 %	pass		
	24,9983 mV	25,0000 mV	±15 µV	-571 nV	1,0 µV	10 %	pass		
				±200 ppm	-70,1 ppm	3,3 ppm	37 %	pass	rel. linearity (to nom. range)

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measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±25,0 mV						
Messbereich (nominell)								
7	-25,0027 mV	-25,0000 mV	±27,5 µV	-2,7 µV	4,5 µV	26 %	pass	
	204 nV	0 µV	±15 µV	205 nV	1,0 µV	8 %	pass	
	24,9993 mV	25,0000 mV	±27,5 µV	-736 nV	4,5 µV	19 %	pass	
			±200 ppm	-77,9 ppm	3,3 ppm	41 %	pass	rel. linearity (to nom. range)
8	-25,0027 mV	-25,0000 mV	±27,5 µV	-2,7 µV	4,5 µV	26 %	pass	
	387 nV	0 µV	±15 µV	388 nV	1,0 µV	9 %	pass	
	24,9993 mV	25,0000 mV	±27,5 µV	-689 nV	4,5 µV	19 %	pass	
			±200 ppm	-83,3 ppm	3,3 ppm	43 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±10,0 mV						
Messbereich (nominell)								
1	-10,0029 mV	-10,0000 mV	±11 µV	-2,9 µV	3,6 µV	59 %	pass	
	-524 nV	0 µV	±6 µV	-525 nV	1,0 µV	25 %	pass	
	9,9979 mV	10,0000 mV	±11 µV	-2,1 µV	3,6 µV	52 %	pass	
			±550 ppm	-198,4 ppm	3,3 ppm	37 %	pass	rel. linearity (to nom. range)
2	-10,0024 mV	-10,0000 mV	±11 µV	-2,4 µV	3,6 µV	54 %	pass	
	-69 nV	0 µV	±6 µV	-70 nV	1,0 µV	18 %	pass	
	9,9979 mV	10,0000 mV	±11 µV	-2,1 µV	3,6 µV	52 %	pass	
			±550 ppm	-215,9 ppm	3,3 ppm	40 %	pass	rel. linearity (to nom. range)
3	-10,0020 mV	-10,0000 mV	±11 µV	-2,0 µV	3,6 µV	51 %	pass	
	134 nV	0 µV	±6 µV	135 nV	1,0 µV	19 %	pass	
	9,9986 mV	10,0000 mV	±11 µV	-1,4 µV	3,6 µV	45 %	pass	
			±550 ppm	-181,0 ppm	3,3 ppm	34 %	pass	rel. linearity (to nom. range)
4	-10,0025 mV	-10,0000 mV	±11 µV	-2,5 µV	3,6 µV	55 %	pass	
	-176 nV	0 µV	±6 µV	-176 nV	1,0 µV	20 %	pass	
	9,9985 mV	10,0000 mV	±11 µV	-1,5 µV	3,6 µV	46 %	pass	
			±550 ppm	-179,2 ppm	3,3 ppm	33 %	pass	rel. linearity (to nom. range)
5	-10,0026 mV	-10,0000 mV	±11 µV	-2,6 µV	3,6 µV	56 %	pass	
	-106 nV	0 µV	±6 µV	-106 nV	1,0 µV	18 %	pass	
	9,9992 mV	10,0000 mV	±11 µV	-809 nV	3,6 µV	40 %	pass	
			±550 ppm	-158,3 ppm	3,3 ppm	29 %	pass	rel. linearity (to nom. range)
6	-10,0018 mV	-10,0000 mV	±11 µV	-1,8 µV	3,6 µV	49 %	pass	
	89 nV	0 µV	±6 µV	89 nV	1,0 µV	18 %	pass	
	9,9986 mV	10,0000 mV	±11 µV	-1,4 µV	3,6 µV	46 %	pass	
			±550 ppm	-172,8 ppm	3,3 ppm	32 %	pass	rel. linearity (to nom. range)
7	-10,0022 mV	-10,0000 mV	±11 µV	-2,2 µV	3,6 µV	52 %	pass	
	391 nV	0 µV	±6 µV	391 nV	1,0 µV	23 %	pass	
	9,9985 mV	10,0000 mV	±11 µV	-1,5 µV	3,6 µV	46 %	pass	
			±550 ppm	-221,2 ppm	3,3 ppm	41 %	pass	rel. linearity (to nom. range)
8	-10,0024 mV	-10,0000 mV	±11 µV	-2,4 µV	3,6 µV	54 %	pass	
	-18 nV	0 µV	±6 µV	-19 nV	1,0 µV	17 %	pass	
	9,9992 mV	10,0000 mV	±11 µV	-786 nV	3,6 µV	40 %	pass	
			±550 ppm	-155,6 ppm	3,3 ppm	29 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±5,0 mV						
Messbereich (nominell)								
1	-5,0015 mV	-5,0000 mV	±5,5 µV	-1,5 µV	3,3 µV	87 %	pass	
	186 nV	0 µV	±3 µV	186 nV	1,0 µV	40 %	pass	
	4,9984 mV	5,0000 mV	±5,5 µV	-1,6 µV	3,3 µV	90 %	pass	
			±800 ppm	-352,3 ppm	3,3 ppm	44 %	pass	rel. linearity (to nom. range)
2	-5,0018 mV	-5,0000 mV	±5,5 µV	-1,8 µV	3,3 µV	93 %	pass	
	162 nV	0 µV	±3 µV	162 nV	1,0 µV	39 %	pass	
	4,9983 mV	5,0000 mV	±5,5 µV	-1,7 µV	3,3 µV	90 %	pass	
			±800 ppm	-379,8 ppm	3,3 ppm	48 %	pass	rel. linearity (to nom. range)
3	-5,0017 mV	-5,0000 mV	±5,5 µV	-1,7 µV	3,3 µV	91 %	pass	
	101 nV	0 µV	±3 µV	101 nV	1,0 µV	37 %	pass	
	4,9983 mV	5,0000 mV	±5,5 µV	-1,7 µV	3,3 µV	92 %	pass	
			±800 ppm	-364,6 ppm	3,3 ppm	46 %	pass	rel. linearity (to nom. range)
4	-5,0021 mV	-5,0000 mV	±5,5 µV	-2,1 µV	3,3 µV	98 %	pass	
	-103 nV	0 µV	±3 µV	-104 nV	1,0 µV	37 %	pass	
	4,9985 mV	5,0000 mV	±5,5 µV	-1,5 µV	3,3 µV	87 %	pass	
			±800 ppm	-334,8 ppm	3,3 ppm	42 %	pass	rel. linearity (to nom. range)

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measurement mode

Voltage (Spannung)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±5.0 mV						
Messbereich (nominell)								
5	-5,0019 mV	-5,0000 mV	±5,5 µV	-1,9 µV	3,3 µV	95 %	pass	
	73 nV	0 µV	±3 µV	73 nV	1,0 µV	36 %	pass	
	4,9984 mV	5,0000 mV	±5,5 µV	-1,6 µV	3,3 µV	89 %	pass	
6			±800 ppm	-368,6 ppm	3,3 ppm	46 %	pass	rel. linearity (to nom. range)
	-5,0026 mV	-5,0000 mV	±5,5 µV	-2,6 µV	3,3 µV	107 %	pass	
	-436 nV	0 µV	±3 µV	-437 nV	1,0 µV	48 %	pass	
	4,9980 mV	5,0000 mV	±5,5 µV	-2,0 µV	3,3 µV	96 %	pass	
7			±800 ppm	-368,9 ppm	3,3 ppm	47 %	pass	rel. linearity (to nom. range)
	-5,0012 mV	-5,0000 mV	±5,5 µV	-1,2 µV	3,3 µV	82 %	pass	
	508 nV	0 µV	±3 µV	508 nV	1,0 µV	50 %	pass	
	4,9989 mV	5,0000 mV	±5,5 µV	-1,1 µV	3,3 µV	81 %	pass	
8			±800 ppm	-335,3 ppm	3,3 ppm	42 %	pass	rel. linearity (to nom. range)
	-5,0020 mV	-5,0000 mV	±5,5 µV	-2,0 µV	3,3 µV	96 %	pass	
	387 nV	0 µV	±3 µV	387 nV	1,0 µV	46 %	pass	
	4,9987 mV	5,0000 mV	±5,5 µV	-1,3 µV	3,3 µV	84 %	pass	
			±800 ppm	-407,3 ppm	3,3 ppm	51 %	pass	rel. linearity (to nom. range)

Calibration Certificate Kalibrierzertifikat

imc_0050898

measurement mode *Current (Strom)*

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±50 mA						
<i>Messbereich (nominell)</i>								
1	-35,0003 mA	-35,0000 mA	±46 µA	-336 nA	6,8 µA	15 %	pass	
	-787 nA	0 nA	±25 µA	-788 nA	50 nA	3 %	pass	
	35,0004 mA	35,0000 mA	±46 µA	374 nA	6,8 µA	16 %	pass	
			±200 ppm	-10,8 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
2	-34,9996 mA	-35,0000 mA	±46 µA	377 nA	6,8 µA	16 %	pass	
	-596 nA	0 nA	±25 µA	-597 nA	50 nA	3 %	pass	
	35,0003 mA	35,0000 mA	±46 µA	349 nA	6,8 µA	16 %	pass	
			±200 ppm	-12,8 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
3	-34,9995 mA	-35,0000 mA	±46 µA	501 nA	6,8 µA	16 %	pass	
	-569 nA	0 nA	±25 µA	-570 nA	50 nA	2 %	pass	
	35,0002 mA	35,0000 mA	±46 µA	179 nA	6,8 µA	15 %	pass	
			±200 ppm	-12,1 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
4	-34,9998 mA	-35,0000 mA	±46 µA	159 nA	6,8 µA	15 %	pass	
	-612 nA	0 nA	±25 µA	-612 nA	50 nA	3 %	pass	
	35,0001 mA	35,0000 mA	±46 µA	133 nA	6,8 µA	15 %	pass	
			±200 ppm	-10,1 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
5	-34,9998 mA	-35,0000 mA	±46 µA	198 nA	6,8 µA	15 %	pass	
	-565 nA	0 nA	±25 µA	-565 nA	50 nA	2 %	pass	
	35,0000 mA	35,0000 mA	±46 µA	14 nA	6,8 µA	15 %	pass	
			±200 ppm	-9,0 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
6	-35,0005 mA	-35,0000 mA	±46 µA	-517 nA	6,8 µA	16 %	pass	
	-905 nA	0 nA	±25 µA	-906 nA	50 nA	4 %	pass	
	35,0002 mA	35,0000 mA	±46 µA	208 nA	6,8 µA	15 %	pass	
			±200 ppm	-10,0 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
7	-34,9996 mA	-35,0000 mA	±46 µA	391 nA	6,8 µA	16 %	pass	
	-711 nA	0 nA	±25 µA	-711 nA	50 nA	3 %	pass	
	35,0004 mA	35,0000 mA	±46 µA	370 nA	6,8 µA	16 %	pass	
			±200 ppm	-14,6 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
8	-35,0001 mA	-35,0000 mA	±46 µA	-50 nA	6,8 µA	15 %	pass	
	-590 nA	0 nA	±25 µA	-591 nA	50 nA	3 %	pass	
	35,0007 mA	35,0000 mA	±46 µA	688 nA	6,8 µA	16 %	pass	
			±200 ppm	-12,1 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±20 mA						
<i>Messbereich (nominell)</i>								
1	-19,9998 mA	-20,0000 mA	±22 µA	193 nA	2,3 µA	11 %	pass	
	-95 nA	0 nA	±10 µA	-96 nA	50 nA	1 %	pass	
	20,0000 mA	20,0000 mA	±22 µA	-17 nA	2,3 µA	10 %	pass	
			±200 ppm	-6,1 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)
2	-19,9998 mA	-20,0000 mA	±22 µA	165 nA	2,3 µA	11 %	pass	
	-141 nA	0 nA	±10 µA	-141 nA	50 nA	2 %	pass	
	20,0000 mA	20,0000 mA	±22 µA	17 nA	2,3 µA	10 %	pass	
			±200 ppm	-7,7 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
3	-19,9998 mA	-20,0000 mA	±22 µA	191 nA	2,3 µA	11 %	pass	
	-165 nA	0 nA	±10 µA	-165 nA	50 nA	2 %	pass	
	19,9999 mA	20,0000 mA	±22 µA	-82 nA	2,3 µA	11 %	pass	
			±200 ppm	-7,3 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
4	-19,9998 mA	-20,0000 mA	±22 µA	173 nA	2,3 µA	11 %	pass	
	-81 nA	0 nA	±10 µA	-82 nA	50 nA	1 %	pass	
	19,9999 mA	20,0000 mA	±22 µA	-56 nA	2,3 µA	11 %	pass	
			±200 ppm	-4,7 ppm	0,33 ppm	2 %	pass	rel. linearity (to nom. range)
5	-20,0000 mA	-20,0000 mA	±22 µA	47 nA	2,3 µA	10 %	pass	
	-172 nA	0 nA	±10 µA	-172 nA	50 nA	2 %	pass	
	20,0001 mA	20,0000 mA	±22 µA	94 nA	2,3 µA	11 %	pass	
			±200 ppm	-8,1 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
6	-19,9998 mA	-20,0000 mA	±22 µA	165 nA	2,3 µA	11 %	pass	
	-179 nA	0 nA	±10 µA	-179 nA	50 nA	2 %	pass	
	19,9998 mA	20,0000 mA	±22 µA	-156 nA	2,3 µA	11 %	pass	
			±200 ppm	-6,1 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)
7	-19,9999 mA	-20,0000 mA	±22 µA	129 nA	2,3 µA	11 %	pass	
	-111 nA	0 nA	±10 µA	-111 nA	50 nA	2 %	pass	
	20,0000 mA	20,0000 mA	±22 µA	25 nA	2,3 µA	10 %	pass	
			±200 ppm	-6,3 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)

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measurement mode *Current (Strom)*

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±20 mA						
<i>Messbereich (nominell)</i>								
8	-20,0000 mA	-20,0000 mA	±22 µA	11 nA	2,3 µA	10 %	pass	
	-89 nA	0 nA	±10 µA	-89 nA	50 nA	1 %	pass	
	20,0001 mA	20,0000 mA	±22 µA	102 nA	2,3 µA	11 %	pass	
			±200 ppm	-4,9 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±10 mA						
<i>Messbereich (nominell)</i>								
1	-9,9999 mA	-10,0000 mA	±11 µA	100 nA	1,3 µA	12 %	pass	
	-117 nA	0 nA	±5 µA	-117 nA	50 nA	3 %	pass	
	10,0000 mA	10,0000 mA	±11 µA	24 nA	1,3 µA	12 %	pass	
			±200 ppm	-12,0 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
2	-9,9999 mA	-10,0000 mA	±11 µA	51 nA	1,3 µA	12 %	pass	
	-139 nA	0 nA	±5 µA	-140 nA	50 nA	4 %	pass	
	10,0000 mA	10,0000 mA	±11 µA	34 nA	1,3 µA	12 %	pass	
			±200 ppm	-12,2 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
3	-10,0000 mA	-10,0000 mA	±11 µA	28 nA	1,3 µA	12 %	pass	
	-160 nA	0 nA	±5 µA	-160 nA	50 nA	4 %	pass	
	10,0000 mA	10,0000 mA	±11 µA	36 nA	1,3 µA	12 %	pass	
			±200 ppm	-12,8 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
4	-10,0000 mA	-10,0000 mA	±11 µA	33 nA	1,3 µA	12 %	pass	
	-120 nA	0 nA	±5 µA	-120 nA	50 nA	3 %	pass	
	10,0001 mA	10,0000 mA	±11 µA	69 nA	1,3 µA	12 %	pass	
			±200 ppm	-11,4 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
5	-10,0000 mA	-10,0000 mA	±11 µA	-25 nA	1,3 µA	12 %	pass	
	-159 nA	0 nA	±5 µA	-160 nA	50 nA	4 %	pass	
	10,0001 mA	10,0000 mA	±11 µA	112 nA	1,3 µA	12 %	pass	
			±200 ppm	-13,6 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
6	-9,9999 mA	-10,0000 mA	±11 µA	125 nA	1,3 µA	12 %	pass	
	-133 nA	0 nA	±5 µA	-133 nA	50 nA	4 %	pass	
	10,0000 mA	10,0000 mA	±11 µA	-3 nA	1,3 µA	11 %	pass	
			±200 ppm	-13,0 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
7	-10,0001 mA	-10,0000 mA	±11 µA	-139 nA	1,3 µA	13 %	pass	
	-202 nA	0 nA	±5 µA	-203 nA	50 nA	5 %	pass	
	10,0001 mA	10,0000 mA	±11 µA	98 nA	1,3 µA	12 %	pass	
			±200 ppm	-12,1 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
8	-10,0000 mA	-10,0000 mA	±11 µA	-28 nA	1,3 µA	12 %	pass	
	-148 nA	0 nA	±5 µA	-149 nA	50 nA	4 %	pass	
	10,0001 mA	10,0000 mA	±11 µA	120 nA	1,3 µA	12 %	pass	
			±200 ppm	-13,0 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±5 mA						
<i>Messbereich (nominell)</i>								
1	-4,99996 mA	-5,00000 mA	±5,5 µA	42 nA	750 nA	14 %	pass	
	-73 nA	0 nA	±2,5 µA	-74 nA	50 nA	5 %	pass	
	5,00002 mA	5,00000 mA	±5,5 µA	24 nA	750 nA	14 %	pass	
			±200 ppm	-14,3 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
2	-4,99995 mA	-5,00000 mA	±5,5 µA	50 nA	750 nA	15 %	pass	
	-75 nA	0 nA	±2,5 µA	-76 nA	50 nA	5 %	pass	
	4,99998 mA	5,00000 mA	±5,5 µA	-16 nA	750 nA	14 %	pass	
			±200 ppm	-12,3 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
3	-4,99993 mA	-5,00000 mA	±5,5 µA	66 nA	750 nA	15 %	pass	
	-92 nA	0 nA	±2,5 µA	-93 nA	50 nA	6 %	pass	
	4,99998 mA	5,00000 mA	±5,5 µA	-17 nA	750 nA	14 %	pass	
			±200 ppm	-15,7 ppm	0,33 ppm	8 %	pass	rel. linearity (to nom. range)
4	-4,99994 mA	-5,00000 mA	±5,5 µA	57 nA	750 nA	15 %	pass	
	-55 nA	0 nA	±2,5 µA	-56 nA	50 nA	4 %	pass	
	5,00003 mA	5,00000 mA	±5,5 µA	34 nA	750 nA	14 %	pass	
			±200 ppm	-13,5 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
5	-4,99993 mA	-5,00000 mA	±5,5 µA	74 nA	750 nA	15 %	pass	
	-75 nA	0 nA	±2,5 µA	-76 nA	50 nA	5 %	pass	
	5,00004 mA	5,00000 mA	±5,5 µA	38 nA	750 nA	14 %	pass	
			±200 ppm	-17,5 ppm	0,33 ppm	9 %	pass	rel. linearity (to nom. range)

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measurement mode Current (Strom)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±5 mA						
Messbereich (nominell)								
6	-4,99992 mA	-5,00000 mA	±5,5 µA	76 nA	750 nA	15 %	pass	
	-86 nA	0 nA	±2,5 µA	-87 nA	50 nA	5 %	pass	
	4,99995 mA	5,00000 mA	±5,5 µA	-52 nA	750 nA	15 %	pass	
			±200 ppm	-13,2 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
7	-4,99981 mA	-5,00000 mA	±5,5 µA	194 nA	750 nA	17 %	pass	
	-72 nA	0 nA	±2,5 µA	-72 nA	50 nA	5 %	pass	
	4,99999 mA	5,00000 mA	±5,5 µA	-11 nA	750 nA	14 %	pass	
			±200 ppm	-21,8 ppm	0,33 ppm	11 %	pass	rel. linearity (to nom. range)
8	-4,99997 mA	-5,00000 mA	±5,5 µA	25 nA	750 nA	14 %	pass	
	-101 nA	0 nA	±2,5 µA	-102 nA	50 nA	6 %	pass	
	4,99997 mA	5,00000 mA	±5,5 µA	-31 nA	750 nA	14 %	pass	
			±200 ppm	-13,2 ppm	0,33 ppm	7 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±2 mA						
Messbereich (nominell)								
1	-2,00001 mA	-2,00000 mA	±2,2 µA	-14 nA	310 nA	15 %	pass	
	-17 nA	0 nA	±1 µA	-17 nA	50 nA	7 %	pass	
	2,00005 mA	2,00000 mA	±2,2 µA	47 nA	310 nA	16 %	pass	
			±200 ppm	-11,2 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
2	-2,00003 mA	-2,00000 mA	±2,2 µA	-28 nA	310 nA	15 %	pass	
	-22 nA	0 nA	±1 µA	-22 nA	50 nA	7 %	pass	
	2,00004 mA	2,00000 mA	±2,2 µA	36 nA	310 nA	16 %	pass	
			±200 ppm	-8,7 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
3	-2,00003 mA	-2,00000 mA	±2,2 µA	-25 nA	310 nA	15 %	pass	
	-27 nA	0 nA	±1 µA	-28 nA	50 nA	8 %	pass	
	2,00003 mA	2,00000 mA	±2,2 µA	30 nA	310 nA	15 %	pass	
			±200 ppm	-10,2 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
4	-2,00003 mA	-2,00000 mA	±2,2 µA	-26 nA	310 nA	15 %	pass	
	-14 nA	0 nA	±1 µA	-15 nA	50 nA	6 %	pass	
	2,00005 mA	2,00000 mA	±2,2 µA	48 nA	310 nA	16 %	pass	
			±200 ppm	-8,5 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
5	-2,00004 mA	-2,00000 mA	±2,2 µA	-37 nA	310 nA	16 %	pass	
	-24 nA	0 nA	±1 µA	-25 nA	50 nA	7 %	pass	
	2,00005 mA	2,00000 mA	±2,2 µA	46 nA	310 nA	16 %	pass	
			±200 ppm	-9,8 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
6	-2,00001 mA	-2,00000 mA	±2,2 µA	-14 nA	310 nA	15 %	pass	
	-26 nA	0 nA	±1 µA	-26 nA	50 nA	8 %	pass	
	2,00003 mA	2,00000 mA	±2,2 µA	29 nA	310 nA	15 %	pass	
			±200 ppm	-11,4 ppm	0,33 ppm	6 %	pass	rel. linearity (to nom. range)
7	-2,00006 mA	-2,00000 mA	±2,2 µA	-61 nA	310 nA	17 %	pass	
	-33 nA	0 nA	±1 µA	-34 nA	50 nA	8 %	pass	
	2,00005 mA	2,00000 mA	±2,2 µA	46 nA	310 nA	16 %	pass	
			±200 ppm	-8,7 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
8	-2,00004 mA	-2,00000 mA	±2,2 µA	-36 nA	310 nA	16 %	pass	
	-23 nA	0 nA	±1 µA	-24 nA	50 nA	7 %	pass	
	2,00004 mA	2,00000 mA	±2,2 µA	43 nA	310 nA	16 %	pass	
			±200 ppm	-8,9 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
measurement range (nominal)		±1 mA						
Messbereich (nominell)								
1	-1,00001 mA	-1,00000 mA	±1,1 µA	-6 nA	180 nA	17 %	pass	
	-6 nA	0 nA	±500 nA	-7 nA	50 nA	11 %	pass	
	1,00002 mA	1,00000 mA	±1,1 µA	15 nA	180 nA	18 %	pass	
			±200 ppm	-7,4 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
2	-1,00002 mA	-1,00000 mA	±1,1 µA	-20 nA	180 nA	18 %	pass	
	-10 nA	0 nA	±500 nA	-11 nA	50 nA	12 %	pass	
	1,00001 mA	1,00000 mA	±1,1 µA	15 nA	180 nA	18 %	pass	
			±200 ppm	-5,3 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)
3	-1,00001 mA	-1,00000 mA	±1,1 µA	-12 nA	180 nA	17 %	pass	
	-14 nA	0 nA	±500 nA	-15 nA	50 nA	13 %	pass	
	1,00001 mA	1,00000 mA	±1,1 µA	14 nA	180 nA	18 %	pass	
			±200 ppm	-10,5 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)

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measurement mode

Current (Strom)

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±1 mA						
<i>Messbereich (nominell)</i>								
4	-1,00001 mA	-1,00000 mA	±1,1 µA	-10 nA	180 nA	17 %	pass	
	-10 nA	0 nA	±500 nA	-10 nA	50 nA	12 %	pass	
	1,00001 mA	1,00000 mA	±1,1 µA	12 nA	180 nA	17 %	pass	
			±200 ppm	-7,6 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
5	-1,00001 mA	-1,00000 mA	±1,1 µA	-10 nA	180 nA	17 %	pass	
	-3 nA	0 nA	±500 nA	-4 nA	50 nA	11 %	pass	
	1,00003 mA	1,00000 mA	±1,1 µA	29 nA	180 nA	19 %	pass	
			±200 ppm	-9,0 ppm	0,33 ppm	5 %	pass	rel. linearity (to nom. range)
6	-1,00002 mA	-1,00000 mA	±1,1 µA	-19 nA	180 nA	18 %	pass	
	-12 nA	0 nA	±500 nA	-12 nA	50 nA	12 %	pass	
	1,00001 mA	1,00000 mA	±1,1 µA	11 nA	180 nA	17 %	pass	
			±200 ppm	-5,6 ppm	0,33 ppm	3 %	pass	rel. linearity (to nom. range)
7	-1,00002 mA	-1,00000 mA	±1,1 µA	-20 nA	180 nA	18 %	pass	
	-14 nA	0 nA	±500 nA	-15 nA	50 nA	13 %	pass	
	1,00001 mA	1,00000 mA	±1,1 µA	15 nA	180 nA	18 %	pass	
			±200 ppm	-8,3 ppm	0,33 ppm	4 %	pass	rel. linearity (to nom. range)
8	-1,00002 mA	-1,00000 mA	±1,1 µA	-24 nA	180 nA	19 %	pass	
	-8 nA	0 nA	±500 nA	-9 nA	50 nA	12 %	pass	
	1,00002 mA	1,00000 mA	±1,1 µA	20 nA	180 nA	18 %	pass	
			±200 ppm	-4,4 ppm	0,33 ppm	2 %	pass	rel. linearity (to nom. range)

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measurement mode

Half-Bridge intern

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen

measurement range (nominal)

±1 mV/V

Messbereich (nominell)

1	-521 µmV/V	0 µmV/V	max. 4 mmV/V	-522 µmV/V	500 µmV/V	26 %	pass	Supply = 5 V
	-521 µmV/V	0 µmV/V	max. 4 mmV/V	-522 µmV/V	500 µmV/V	26 %	pass	Supply = 5 V

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measurement mode

Cold Junction PT1000

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±100 °C</i>						
<i>Messbereich (nominell)</i>								
1	-49,998 °C	-50,000 °C	max. 0,15K	2 mK	0,030 K	22 %	pass	
	79,999 °C	80,000 °C	max. 0,15K	-990 µK	0,040 K	27 %	pass	
2	-49,999 °C	-50,000 °C	max. 0,15K	2 mK	0,030 K	21 %	pass	
	80,003 °C	80,000 °C	max. 0,15K	3 mK	0,040 K	28 %	pass	
3	-50,000 °C	-50,000 °C	max. 0,15K	160 µK	0,030 K	20 %	pass	
	80,001 °C	80,000 °C	max. 0,15K	960 µK	0,040 K	27 %	pass	
4	-50,000 °C	-50,000 °C	max. 0,15K	170 µK	0,030 K	20 %	pass	
	80,000 °C	80,000 °C	max. 0,15K	-280 µK	0,040 K	27 %	pass	

Calibration Certificate Kalibrierzertifikat

imc_0050898

measurement mode

Bridge-Sense

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±625,0 mV</i>						
<i>Messbereich (nominell)</i>								
1	12,1 µV	0 µV	±313 µV	12,1 µV	3,0 µV	5 %	pass	
	250,003 mV	250,000 mV	±438 µV	3 µV	18 µV	5 %	pass	
	500,015 mV	500,000 mV	±563 µV	15 µV	30 µV	8 %	pass	
2	11,3 µV	0 µV	±313 µV	11,3 µV	3,0 µV	5 %	pass	
	249,996 mV	250,000 mV	±438 µV	-4 µV	18 µV	5 %	pass	
	500,007 mV	500,000 mV	±563 µV	7 µV	30 µV	7 %	pass	
3	14,3 µV	0 µV	±313 µV	14,3 µV	3,0 µV	6 %	pass	
	250,009 mV	250,000 mV	±438 µV	9 µV	18 µV	6 %	pass	
	500,022 mV	500,000 mV	±563 µV	22 µV	30 µV	9 %	pass	
4	2,5 µV	0 µV	±313 µV	2,5 µV	3,0 µV	2 %	pass	
	249,998 mV	250,000 mV	±438 µV	-2 µV	18 µV	5 %	pass	
	500,013 mV	500,000 mV	±563 µV	13 µV	30 µV	8 %	pass	
5	2,4 µV	0 µV	±313 µV	2,4 µV	3,0 µV	2 %	pass	
	249,999 mV	250,000 mV	±438 µV	-846 nV	18 µV	4 %	pass	
	500,016 mV	500,000 mV	±563 µV	16 µV	30 µV	8 %	pass	
6	-47 nV	0 µV	±313 µV	-47 nV	3,0 µV	1 %	pass	
	249,983 mV	250,000 mV	±438 µV	-17 µV	18 µV	8 %	pass	
	499,988 mV	500,000 mV	±563 µV	-12 µV	30 µV	7 %	pass	
7	6,3 µV	0 µV	±313 µV	6,3 µV	3,0 µV	3 %	pass	
	249,998 mV	250,000 mV	±438 µV	-2 µV	18 µV	5 %	pass	
	500,012 mV	500,000 mV	±563 µV	12 µV	30 µV	8 %	pass	
8	11,9 µV	0 µV	±313 µV	11,9 µV	3,0 µV	5 %	pass	
	249,998 mV	250,000 mV	±438 µV	-2 µV	18 µV	5 %	pass	
	500,009 mV	500,000 mV	±563 µV	9 µV	30 µV	7 %	pass	

Calibration Certificate Kalibrierzertifikat

imc_0050898

measurement mode

Bridge-Supply

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±10,0 V</i>						
<i>Messbereich (nominell)</i>								
1	9,98385 V	10,00000 V	±20 mV	-16,15 mV	550 µV	83 %	pass	
2	9,98361 V	10,00000 V	±20 mV	-16,39 mV	550 µV	85 %	pass	
3	9,98383 V	10,00000 V	±20 mV	-16,17 mV	550 µV	84 %	pass	
4	9,98349 V	10,00000 V	±20 mV	-16,51 mV	550 µV	85 %	pass	
5	9,98357 V	10,00000 V	±20 mV	-16,43 mV	550 µV	85 %	pass	
6	9,98365 V	10,00000 V	±20 mV	-16,35 mV	550 µV	84 %	pass	
7	9,98428 V	10,00000 V	±20 mV	-15,72 mV	550 µV	81 %	pass	
8	9,98386 V	10,00000 V	±20 mV	-16,14 mV	550 µV	83 %	pass	
<i>measurement range (nominal)</i>		<i>±5,0 V</i>						
<i>Messbereich (nominell)</i>								
1	4,99124 V	5,00000 V	±10 mV	-8,76 mV	300 µV	91 %	pass	
2	4,99111 V	5,00000 V	±10 mV	-8,89 mV	300 µV	92 %	pass	
3	4,99131 V	5,00000 V	±10 mV	-8,69 mV	300 µV	90 %	pass	
4	4,99097 V	5,00000 V	±10 mV	-9,03 mV	300 µV	93 %	pass	
5	4,99107 V	5,00000 V	±10 mV	-8,93 mV	300 µV	92 %	pass	
6	4,99126 V	5,00000 V	±10 mV	-8,74 mV	300 µV	90 %	pass	
7	4,99159 V	5,00000 V	±10 mV	-8,41 mV	300 µV	87 %	pass	
8	4,99127 V	5,00000 V	±10 mV	-8,73 mV	300 µV	90 %	pass	

Calibration Certificate Kalibrierzertifikat

imc_0050898

measurement mode

PT100 Supply, individual channel

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±500 mV</i>						
<i>Messbereich (nominell)</i>								
1	124,988 mV	125,000 mV	±138 µV	-12 µV	13 µV	18 %	pass	Ref-R=100 Ohm
	149,987 mV	150,000 mV	±145 µV	-13 µV	15 µV	19 %	pass	Ref-R=120 Ohm
	437,477 mV	437,500 mV	±231 µV	-23 µV	44 µV	29 %	pass	Ref-R=350 Ohm
2	124,999 mV	125,000 mV	±138 µV	-1 µV	13 µV	10 %	pass	Ref-R=100 Ohm
	149,998 mV	150,000 mV	±145 µV	-2 µV	15 µV	12 %	pass	Ref-R=120 Ohm
	437,501 mV	437,500 mV	±231 µV	735 nV	44 µV	19 %	pass	Ref-R=350 Ohm
3	124,995 mV	125,000 mV	±138 µV	-5 µV	13 µV	13 %	pass	Ref-R=100 Ohm
	149,994 mV	150,000 mV	±145 µV	-6 µV	15 µV	15 %	pass	Ref-R=120 Ohm
	437,491 mV	437,500 mV	±231 µV	-9 µV	44 µV	23 %	pass	Ref-R=350 Ohm
4	124,979 mV	125,000 mV	±138 µV	-21 µV	13 µV	24 %	pass	Ref-R=100 Ohm
	149,977 mV	150,000 mV	±145 µV	-23 µV	15 µV	26 %	pass	Ref-R=120 Ohm
	437,467 mV	437,500 mV	±231 µV	-33 µV	44 µV	33 %	pass	Ref-R=350 Ohm
5	124,984 mV	125,000 mV	±138 µV	-16 µV	13 µV	20 %	pass	Ref-R=100 Ohm
	149,983 mV	150,000 mV	±145 µV	-17 µV	15 µV	22 %	pass	Ref-R=120 Ohm
	437,483 mV	437,500 mV	±231 µV	-17 µV	44 µV	26 %	pass	Ref-R=350 Ohm
6	124,985 mV	125,000 mV	±138 µV	-15 µV	13 µV	20 %	pass	Ref-R=100 Ohm
	149,981 mV	150,000 mV	±145 µV	-19 µV	15 µV	23 %	pass	Ref-R=120 Ohm
	437,483 mV	437,500 mV	±231 µV	-17 µV	44 µV	26 %	pass	Ref-R=350 Ohm
7	124,996 mV	125,000 mV	±138 µV	-4 µV	13 µV	12 %	pass	Ref-R=100 Ohm
	149,993 mV	150,000 mV	±145 µV	-7 µV	15 µV	15 %	pass	Ref-R=120 Ohm
	437,497 mV	437,500 mV	±231 µV	-3 µV	44 µV	20 %	pass	Ref-R=350 Ohm
8	124,995 mV	125,000 mV	±138 µV	-5 µV	13 µV	13 %	pass	Ref-R=100 Ohm
	149,993 mV	150,000 mV	±145 µV	-7 µV	15 µV	15 %	pass	Ref-R=120 Ohm
	437,493 mV	437,500 mV	±231 µV	-7 µV	44 µV	22 %	pass	Ref-R=350 Ohm

Calibration Certificate Kalibrierzertifikat

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measurement mode

PT100 3-Wire Sense

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±78,1 mV						
Measurement range (nominal)		Messbereich (nominell)						
1	-4 µV	0 µV	±39,1 µV	-4 µV	18 µV	56 %	pass	
	28,013 mV	28,000 mV	±67,1 µV	13 µV	21 µV	52 %	pass	
	63,003 mV	63,000 mV	±102 µV	3 µV	26 µV	28 %	pass	
2	964 nV	0 µV	±39,1 µV	965 nV	18 µV	47 %	pass	
	28,013 mV	28,000 mV	±67,1 µV	13 µV	21 µV	51 %	pass	
	63,000 mV	63,000 mV	±102 µV	213 nV	26 µV	25 %	pass	
3	2 µV	0 µV	±39,1 µV	3 µV	18 µV	52 %	pass	
	28,012 mV	28,000 mV	±67,1 µV	12 µV	21 µV	50 %	pass	
	62,997 mV	63,000 mV	±102 µV	-3 µV	26 µV	28 %	pass	
4	306 nV	0 µV	±39,1 µV	306 nV	18 µV	46 %	pass	
	28,016 mV	28,000 mV	±67,1 µV	16 µV	21 µV	56 %	pass	
	62,999 mV	63,000 mV	±102 µV	-544 nV	26 µV	26 %	pass	
5	436 nV	0 µV	±39,1 µV	436 nV	18 µV	46 %	pass	
	28,001 mV	28,000 mV	±67,1 µV	1 µV	21 µV	34 %	pass	
	63,000 mV	63,000 mV	±102 µV	-92 nV	26 µV	25 %	pass	
6	-473 nV	0 µV	±39,1 µV	-473 nV	18 µV	46 %	pass	
	28,000 mV	28,000 mV	±67,1 µV	-190 nV	21 µV	32 %	pass	
	63,000 mV	63,000 mV	±102 µV	116 nV	26 µV	25 %	pass	
7	-1 µV	0 µV	±39,1 µV	-2 µV	18 µV	49 %	pass	
	28,001 mV	28,000 mV	±67,1 µV	964 nV	21 µV	33 %	pass	
	63,002 mV	63,000 mV	±102 µV	2 µV	26 µV	27 %	pass	
8	-1 µV	0 µV	±39,1 µV	-1 µV	18 µV	47 %	pass	
	28,001 mV	28,000 mV	±67,1 µV	942 nV	21 µV	33 %	pass	
	63,002 mV	63,000 mV	±102 µV	2 µV	26 µV	27 %	pass	

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measurement mode

PT100 3-Wire Channel

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±500 mV</i>						
<i>Messbereich (nominell)</i>								
1	-500,001 mV	-500,000 mV	±500 µV	-832 nV	30 µV	6 %	pass	
	-10,6 µV	0 µV	±250 µV	-10,6 µV	3,0 µV	5 %	pass	
	500,001 mV	500,000 mV	±500 µV	1 µV	30 µV	6 %	pass	
2	-499,994 mV	-500,000 mV	±500 µV	6 µV	30 µV	7 %	pass	
	-4,8 µV	0 µV	±250 µV	-4,8 µV	3,0 µV	3 %	pass	
	500,003 mV	500,000 mV	±500 µV	3 µV	30 µV	7 %	pass	
3	-499,989 mV	-500,000 mV	±500 µV	11 µV	30 µV	8 %	pass	
	-9,2 µV	0 µV	±250 µV	-9,2 µV	3,0 µV	5 %	pass	
	499,991 mV	500,000 mV	±500 µV	-9 µV	30 µV	8 %	pass	
4	-499,978 mV	-500,000 mV	±500 µV	22 µV	30 µV	10 %	pass	
	-4,7 µV	0 µV	±250 µV	-4,7 µV	3,0 µV	3 %	pass	
	499,985 mV	500,000 mV	±500 µV	-15 µV	30 µV	9 %	pass	
5	-500,010 mV	-500,000 mV	±500 µV	-10 µV	30 µV	8 %	pass	
	-16,5 µV	0 µV	±250 µV	-16,5 µV	3,0 µV	8 %	pass	
	499,997 mV	500,000 mV	±500 µV	-3 µV	30 µV	7 %	pass	
6	-499,986 mV	-500,000 mV	±500 µV	14 µV	30 µV	9 %	pass	
	-17,1 µV	0 µV	±250 µV	-17,1 µV	3,0 µV	8 %	pass	
	499,977 mV	500,000 mV	±500 µV	-23 µV	30 µV	11 %	pass	
7	-499,998 mV	-500,000 mV	±500 µV	2 µV	30 µV	6 %	pass	
	-4,9 µV	0 µV	±250 µV	-4,9 µV	3,0 µV	3 %	pass	
	500,011 mV	500,000 mV	±500 µV	11 µV	30 µV	8 %	pass	
8	-499,985 mV	-500,000 mV	±500 µV	15 µV	30 µV	9 %	pass	
	-7,2 µV	0 µV	±250 µV	-7,2 µV	3,0 µV	4 %	pass	
	499,988 mV	500,000 mV	±500 µV	-12 µV	30 µV	8 %	pass	

Calibration Certificate Kalibrierzertifikat

imc_0050898

measurement mode

Bridge-Supply Reference

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±10,0 V</i>						
<i>Messbereich (nominell)</i>								
1	9,98362 V	9,98385 V	±5 mV	-233 µV	550 µV	16 %	pass	
2	9,98362 V	9,98361 V	±5 mV	9 µV	550 µV	11 %	pass	
3	9,98362 V	9,98383 V	±5 mV	-214 µV	550 µV	15 %	pass	
4	9,98362 V	9,98349 V	±5 mV	132 µV	550 µV	14 %	pass	
5	9,98362 V	9,98357 V	±5 mV	52 µV	550 µV	12 %	pass	
6	9,98362 V	9,98365 V	±5 mV	-37 µV	550 µV	12 %	pass	
7	9,98362 V	9,98428 V	±5 mV	-659 µV	550 µV	24 %	pass	
8	9,98362 V	9,98386 V	±5 mV	-240 µV	550 µV	16 %	pass	
<i>measurement range (nominal)</i>		<i>±5,0 V</i>						
<i>Messbereich (nominell)</i>								
1	4,99122 V	4,99124 V	±2,5 mV	-16 µV	300 µV	13 %	pass	
2	4,99122 V	4,99111 V	±2,5 mV	116 µV	300 µV	17 %	pass	
3	4,99122 V	4,99131 V	±2,5 mV	-86 µV	300 µV	15 %	pass	
4	4,99122 V	4,99097 V	±2,5 mV	254 µV	300 µV	22 %	pass	
5	4,99122 V	4,99107 V	±2,5 mV	153 µV	300 µV	18 %	pass	
6	4,99122 V	4,99126 V	±2,5 mV	-31 µV	300 µV	13 %	pass	
7	4,99122 V	4,99159 V	±2,5 mV	-361 µV	300 µV	26 %	pass	
8	4,99122 V	4,99127 V	±2,5 mV	-44 µV	300 µV	14 %	pass	

Calibration Certificate Kalibrierzertifikat

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measurement mode

Sensor Supply

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
<i>measurement range (nominal)</i>		<i>±5 V</i>						
<i>Messbereich (nominell)</i>								
1	5,08959 V	5,00000 V	±250 mV	89,59 mV	300 µV	36 %	pass	
2	5,08948 V	5,00000 V	±250 mV	89,48 mV	300 µV	36 %	pass	
3	5,08941 V	5,00000 V	±250 mV	89,41 mV	300 µV	36 %	pass	
4	5,08942 V	5,00000 V	±250 mV	89,42 mV	300 µV	36 %	pass	
<i>measurement range (nominal)</i>		<i>±2 V</i>						
<i>Messbereich (nominell)</i>								
1	2,36964 V	2,37000 V	±125 mV	-356 µV	120 µV	0 %	pass	
2	2,37005 V	2,37000 V	±125 mV	47 µV	120 µV	0 %	pass	
3	2,36979 V	2,37000 V	±125 mV	-214 µV	120 µV	0 %	pass	
4	2,36954 V	2,37000 V	±125 mV	-463 µV	120 µV	0 %	pass	

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measurement mode

Quarter Bridge Voltage

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±625 mV						
<i>Messbereich (nominell)</i>								
1	8,3 µV	0 µV	±313 µV	8,3 µV	3,0 µV	4 %	pass	
	250,000 mV	250,000 mV	±438 µV	337 nV	18 µV	4 %	pass	
	500,014 mV	500,000 mV	±563 µV	14 µV	30 µV	8 %	pass	
2	-4,1 µV	0 µV	±313 µV	-4,1 µV	3,0 µV	2 %	pass	
	249,986 mV	250,000 mV	±438 µV	-14 µV	18 µV	7 %	pass	
	500,000 mV	500,000 mV	±563 µV	-355 nV	30 µV	5 %	pass	
3	-3,1 µV	0 µV	±313 µV	-3,1 µV	3,0 µV	2 %	pass	
	249,981 mV	250,000 mV	±438 µV	-19 µV	18 µV	9 %	pass	
	499,982 mV	500,000 mV	±563 µV	-18 µV	30 µV	9 %	pass	
4	1,2 µV	0 µV	±313 µV	1,2 µV	3,0 µV	1 %	pass	
	249,993 mV	250,000 mV	±438 µV	-7 µV	18 µV	6 %	pass	
	500,007 mV	500,000 mV	±563 µV	7 µV	30 µV	7 %	pass	
5	-5,7 µV	0 µV	±313 µV	-5,7 µV	3,0 µV	3 %	pass	
	249,979 mV	250,000 mV	±438 µV	-21 µV	18 µV	9 %	pass	
	499,985 mV	500,000 mV	±563 µV	-15 µV	30 µV	8 %	pass	
6	-4,1 µV	0 µV	±313 µV	-4,1 µV	3,0 µV	2 %	pass	
	249,982 mV	250,000 mV	±438 µV	-18 µV	18 µV	8 %	pass	
	499,984 mV	500,000 mV	±563 µV	-16 µV	30 µV	8 %	pass	
7	4,4 µV	0 µV	±313 µV	4,4 µV	3,0 µV	2 %	pass	
	250,002 mV	250,000 mV	±438 µV	2 µV	18 µV	5 %	pass	
	500,014 mV	500,000 mV	±563 µV	14 µV	30 µV	8 %	pass	
8	-3,9 µV	0 µV	±313 µV	-3,9 µV	3,0 µV	2 %	pass	
	249,983 mV	250,000 mV	±438 µV	-17 µV	18 µV	8 %	pass	
	499,988 mV	500,000 mV	±563 µV	-12 µV	30 µV	8 %	pass	

Calibration Certificate Kalibrierzertifikat

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measurement mode

Bridge-Supply Test

Messart

channel	measurement value	reference value	allowed deviation	measured deviation	uncertainty of measurement	% of allowed deviation	result	Remarks
Kanal	Messwert	eingestellter Wert	zulässige Abweichung	gemessene Abweichung	Messunsicherheit	Toleranzausnutzung	Ergebnis	Bemerkungen
measurement range (nominal)		±24 V						
Messbereich (nominell)								
1	23,9620 V	24,0000 V	±120 mV	-38,0 mV	1,3 mV	33 %	pass	
2	23,9608 V	24,0000 V	±120 mV	-39,2 mV	1,3 mV	34 %	pass	
3	23,9584 V	24,0000 V	±120 mV	-41,6 mV	1,3 mV	36 %	pass	
4	23,9603 V	24,0000 V	±120 mV	-39,7 mV	1,3 mV	34 %	pass	
5	23,9646 V	24,0000 V	±120 mV	-35,4 mV	1,3 mV	31 %	pass	
6	23,9602 V	24,0000 V	±120 mV	-39,8 mV	1,3 mV	34 %	pass	
7	23,9647 V	24,0000 V	±120 mV	-35,3 mV	1,3 mV	30 %	pass	
8	23,9623 V	24,0000 V	±120 mV	-37,7 mV	1,3 mV	32 %	pass	
measurement range (nominal)		±15 V						
Messbereich (nominell)								
1	14,97611 V	15,00000 V	±75 mV	-23,89 mV	800 µV	33 %	pass	
2	14,97529 V	15,00000 V	±75 mV	-24,71 mV	800 µV	34 %	pass	
3	14,97381 V	15,00000 V	±75 mV	-26,19 mV	800 µV	36 %	pass	
4	14,97513 V	15,00000 V	±75 mV	-24,87 mV	800 µV	34 %	pass	
5	14,97768 V	15,00000 V	±75 mV	-22,32 mV	800 µV	31 %	pass	
6	14,97518 V	15,00000 V	±75 mV	-24,82 mV	800 µV	34 %	pass	
7	14,97803 V	15,00000 V	±75 mV	-21,97 mV	800 µV	30 %	pass	
8	14,97657 V	15,00000 V	±75 mV	-23,43 mV	800 µV	32 %	pass	
measurement range (nominal)		±12 V						
Messbereich (nominell)								
1	11,98037 V	12,00000 V	±60 mV	-19,63 mV	650 µV	34 %	pass	
2	11,97966 V	12,00000 V	±60 mV	-20,34 mV	650 µV	35 %	pass	
3	11,97844 V	12,00000 V	±60 mV	-21,56 mV	650 µV	37 %	pass	
4	11,97962 V	12,00000 V	±60 mV	-20,38 mV	650 µV	35 %	pass	
5	11,98170 V	12,00000 V	±60 mV	-18,30 mV	650 µV	32 %	pass	
6	11,97966 V	12,00000 V	±60 mV	-20,34 mV	650 µV	35 %	pass	
7	11,98177 V	12,00000 V	±60 mV	-18,23 mV	650 µV	31 %	pass	
8	11,98073 V	12,00000 V	±60 mV	-19,27 mV	650 µV	33 %	pass	
measurement range (nominal)		±10 V						
Messbereich (nominell)								
1	9,98382 V	10,00000 V	±50 mV	-16,18 mV	550 µV	33 %	pass	
2	9,98361 V	10,00000 V	±50 mV	-16,39 mV	550 µV	34 %	pass	
3	9,98382 V	10,00000 V	±50 mV	-16,18 mV	550 µV	33 %	pass	
4	9,98344 V	10,00000 V	±50 mV	-16,56 mV	550 µV	34 %	pass	
5	9,98353 V	10,00000 V	±50 mV	-16,47 mV	550 µV	34 %	pass	
6	9,98362 V	10,00000 V	±50 mV	-16,38 mV	550 µV	34 %	pass	
7	9,98437 V	10,00000 V	±50 mV	-15,63 mV	550 µV	32 %	pass	
8	9,98374 V	10,00000 V	±50 mV	-16,26 mV	550 µV	34 %	pass	
measurement range (nominal)		±5 V						
Messbereich (nominell)								
1	4,99113 V	5,00000 V	±25 mV	-8,87 mV	300 µV	37 %	pass	
2	4,99098 V	5,00000 V	±25 mV	-9,02 mV	300 µV	37 %	pass	
3	4,99119 V	5,00000 V	±25 mV	-8,81 mV	300 µV	36 %	pass	
4	4,99087 V	5,00000 V	±25 mV	-9,13 mV	300 µV	38 %	pass	
5	4,99090 V	5,00000 V	±25 mV	-9,10 mV	300 µV	38 %	pass	
6	4,99111 V	5,00000 V	±25 mV	-8,89 mV	300 µV	37 %	pass	
7	4,99158 V	5,00000 V	±25 mV	-8,42 mV	300 µV	35 %	pass	
8	4,99116 V	5,00000 V	±25 mV	-8,84 mV	300 µV	37 %	pass	

Summary

Zusammenfassung

Max. % of allowed deviation is 107 %