Kalibrier-Zertifikat Calibration Certificate 123456

Gegenstand Object	Linienschreiber
Hersteller Manufacturer	YOKOGAWA Deutschland GmbH
Typ Type description	LR12000E
Serien Nr. Serial no.	123456
Inventar Nr. Inventory no.	123456
Prüfmittel Nr. Test equipment no.	123456
Equipment Nr. Equipment no.	123456
Standort Location	---
Auftraggeber Customer	Mustermann GmbH DE-123456 Musterstadt
Kunden Nr. Customer ID no.	123456
Auftrags Nr. Order no.	123456
Datum der Kalibrierung Date of calibration	07.03.2012
Datum der empfohlenen Rekalibrierung Date of the recommended re-calibration	07.03.2013

Hiermit bestätigen wir, dass das durchführende Kalibrierlabor ein Managementsystem nach **ISO 9001:2008,** sowie **ISO/IEC 17025:2005** eingeführt hat. Die Urkunden finden Sie auf www.testotis.de. Die für die Kalibrierung verwendeten Messeinrichtungen werden regelmäßig kalibriert und sind rückführbar auf die nationalen Normale der Physikalisch Technischen Bundesanstalt (PTB) Deutschlands oder auf andere nationale Normale. Wo keine nationalen Normale existieren, entspricht das Messverfahren den derzeit gültigen technischen Regeln und Normen. Die für diesen Vorgang angefertigte Dokumentation kann eingesehen werden. Alle erforderlichen Messdaten sind auf der(n) nachfolgenden Seite(n) dieses Kalibrier-Zertifikats aufgelistet.

Hereby we confirm that the performing calibration labratory is working with a management system according to **ISO 9001:2008** and **ISO/IEC 17025:2005**. Accreditation certificates can be found under www.testotis.de. The measuring installations used for calibration are regularly calibrated and traceable to the national standards of the German Federal Physical Technical Institute (PTB) or other national standards. Should no national standards exist, the measuring procedure corresponds with the technical regulations and norms valid at the time of the measurement. The documents established for this procedure are available for viewing. All the necessary measured data can be found on the following page(s) of this calibration certificate.

Konformitätsaussage conformity

☒ Messwert(e) innerhalb der zulässigen Abweichung[1]. Measured value(s) within the allowed´deviation[1].

☐ Messwert(e) außerhalb der zulässigen Abweichung[1]. Measured value(s) beyond the allowed deviation[1].

[1]) Die Messunsicherheit wurde nach GUM mit dem Erweiterungsfaktor k=2 berechnet und enthält die Unsicherheit des Verfahrens sowie die Unsicherheit des Prüflings. Die Konformitätsaussage erfolgte nach DIN EN ISO 14253-1 gemäß der Kalibrieranweisung QSA 7.5-02.
[1]) The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system. The statement of conformity was made according to DIN EN ISO 14253-1 according to calibration instruction QSA 7.5-02.

Dieser Kalibrierschein darf nur vollständig weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung des ausstellenden Kalibrierlaboratoriums. Kalibrierscheine ohne Unterschrift und Stempel haben keine Gültigkeit.
This calibration certificate may not be reproduced other than in full except with permission of the issuing laboratory. Calibration certificates without signature and seal are not valid.

V 2.4

Stempel seal

TESTO INDUSTRIAL SERVICES testo KIRCHZARTEN

Fachverantwortlicher supervisor

Max Mustermann

Bearbeiter technician

Max Mustermann

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Messeinrichtungen measuring equipment

Referenz reference	Rückführung traceability	Rekal. next cal.	Zertifikat-Nr. certificate-no.	Eq.-Nr. eq-no.
Calibrator Fluke Deutschland GmbH 5520A	15070-01-01 2011-08	2012-08	E16549	10254614

*Referenzzertifikate sind auf www.primasonline.de abrufbar Reference certificates are available at www.primasonline.com

Umgebungsbedingungen ambient conditions

Temperatur temperature 22...24 °C
Feuchte humidity 20...60 %rF (%RH)

Messverfahren measuring procedure

Prüfprozedur procedure Yokogawa:LR12000E:tis:5520A / Rev.:1.0

Messergebnisse measuring results

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Besondere Bemerkungen special remarks

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %		Messunsicherheit (k=2) measuring uncertainty (k=2)
Gleichspannung DC							
Range 1mV							
Kanal 1-12							
1 mV	1.00000 mV		0.9990 mV	0.00180 mV	56%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9993 mV	0.00180 mV	39%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9992 mV	0.00180 mV	44%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9991 mV	0.00180 mV	50%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9995 mV	0.00180 mV	28%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9995 mV	0.00180 mV	28%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		0.9997 mV	0.00180 mV	17%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		1.0003 mV	0.00180 mV	17%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		1.0005 mV	0.00180 mV	28%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		1.0006 mV	0.00180 mV	33%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		1.0002 mV	0.00180 mV	11%	i.O.	$4{,}0 \cdot 10^{-3}$
1 mV	1.00000 mV		1.0003 mV	0.00180 mV	17%	i.O.	$4{,}0 \cdot 10^{-3}$
Range 2mV							
Kanal 1-12							
2 mV	2.00000 mV		1.9986 mV	0.00160 mV	88%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9991 mV	0.00160 mV	56%	i.O.	$2{,}0 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9991 mV	0.00160 mV	56%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9986 mV	0.00160 mV	88%	i.O.	$2{,}0 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9986 mV	0.00160 mV	88%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9984 mV	0.00160 mV	100%	i.O.	$2{,}0 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9984 mV	0.00160 mV	100%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9987 mV	0.00160 mV	81%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9991 mV	0.00160 mV	56%	i.O.	$2{,}0 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9991 mV	0.00160 mV	56%	i.O.	$2{,}5 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9990 mV	0.00160 mV	63%	i.O.	$2{,}0 \cdot 10^{-3}$
2 mV	2.00000 mV		1.9990 mV	0.00160 mV	63%	i.O.	$2{,}5 \cdot 10^{-3}$
Range 5mV							
Kanal 1-12							
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9970 mV	0.00400 mV	75%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9960 mV	0.00400 mV	100%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9970 mV	0.00400 mV	75%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9970 mV	0.00400 mV	75%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9970 mV	0.00400 mV	75%	i.O.	$1{,}0 \cdot 10^{-3}$
5 mV	5.00000 mV		4.9970 mV	0.00400 mV	75%	i.O.	$1{,}0 \cdot 10^{-3}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %		Messunsicherheit (k=2) measuring uncertainty (k=2)
Range 10mV							
Kanal 1-12							
10 mV	10.0000 mV		9.993 mV	0.0080 mV	88%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.994 mV	0.0080 mV	75%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.992 mV	0.0080 mV	100%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.993 mV	0.0080 mV	88%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.993 mV	0.0080 mV	88%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.994 mV	0.0080 mV	75%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.992 mV	0.0080 mV	100%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.993 mV	0.0080 mV	88%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.992 mV	0.0080 mV	100%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.992 mV	0.0080 mV	100%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.995 mV	0.0080 mV	63%	i.O.	$500 \cdot 10^{-6}$
10 mV	10.0000 mV		9.993 mV	0.0080 mV	88%	i.O.	$500 \cdot 10^{-6}$
Range 20mV							
Kanal 1-12							
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.984 mV	0.0160 mV	100%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.986 mV	0.0160 mV	88%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.984 mV	0.0160 mV	100%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.984 mV	0.0160 mV	100%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.986 mV	0.0160 mV	88%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
20 mV	20.0000 mV		19.985 mV	0.0160 mV	94%	i.O.	$250 \cdot 10^{-6}$
Range 50mV							
Kanal 1-12							
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.970 mV	0.0400 mV	75%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.970 mV	0.0400 mV	75%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$
50 mV	50.0000 mV		49.960 mV	0.0400 mV	100%	i.O.	$100 \cdot 10^{-6}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %		Messunsicherheit (k=2) measuring uncertainty (k=2)
Range 100mV							
Kanal 1-12							
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.94 mV	0.080 mV	75%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.93 mV	0.080 mV	88%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.95 mV	0.080 mV	63%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.93 mV	0.080 mV	88%	i.O.	$50 \cdot 10^{-6}$
100 mV	100.000 mV		99.92 mV	0.080 mV	100%	i.O.	$50 \cdot 10^{-6}$
Range 200mV							
Kanal 1-12							
200 mV	200.000 mV		199.84 mV	0.160 mV	100%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.86 mV	0.160 mV	88%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.84 mV	0.160 mV	100%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.86 mV	0.160 mV	88%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.85 mV	0.160 mV	94%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.85 mV	0.160 mV	94%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.85 mV	0.160 mV	94%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.84 mV	0.160 mV	100%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.85 mV	0.160 mV	94%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.86 mV	0.160 mV	88%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.86 mV	0.160 mV	88%	i.O.	$50 \cdot 10^{-6}$
200 mV	200.000 mV		199.85 mV	0.160 mV	94%	i.O.	$50 \cdot 10^{-6}$
Range 500mV							
Kanal 1-12							
500 mV	500.000 mV		499.80 mV	0.400 mV	50%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.80 mV	0.400 mV	50%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.80 mV	0.400 mV	50%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.90 mV	0.400 mV	25%	i.O.	$20 \cdot 10^{-6}$
500 mV	500.000 mV		499.80 mV	0.400 mV	50%	i.O.	$20 \cdot 10^{-6}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %		Messunsicherheit (k=2) measuring uncertainty (k=2)
Range 1000mV							
Kanal 1-12							
1000 mV	1000.00 mV		999.7 mV	0.80 mV	38%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		1000.0 mV	0.80 mV	0%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.8 mV	0.80 mV	25%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.8 mV	0.80 mV	25%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.7 mV	0.80 mV	38%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.8 mV	0.80 mV	25%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.9 mV	0.80 mV	13%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.8 mV	0.80 mV	25%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		1000.0 mV	0.80 mV	0%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.9 mV	0.80 mV	13%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.9 mV	0.80 mV	13%	i.O.	$100 \cdot 10^{-6}$
1000 mV	1000.00 mV		999.8 mV	0.80 mV	25%	i.O.	$100 \cdot 10^{-6}$
Range 2000mV							
Kanal 1-12							
2000 mV	2000.00 mV		1999.6 mV	1.60 mV	25%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		2000.0 mV	1.60 mV	0%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		2000.0 mV	1.60 mV	0%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.8 mV	1.60 mV	13%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.6 mV	1.60 mV	25%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.9 mV	1.60 mV	6%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		2000.0 mV	1.60 mV	0%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.7 mV	1.60 mV	19%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		2000.1 mV	1.60 mV	6%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		2000.1 mV	1.60 mV	6%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.8 mV	1.60 mV	13%	i.O.	$250 \cdot 10^{-6}$
2000 mV	2000.00 mV		1999.8 mV	1.60 mV	13%	i.O.	$250 \cdot 10^{-6}$
Range 5V							
Kanal 1-12							
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9970 V	0.00400 V	75%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9970 V	0.00400 V	75%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9970 V	0.00400 V	75%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9980 V	0.00400 V	50%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9990 V	0.00400 V	25%	i.O.	$20 \cdot 10^{-6}$
5 V	5.00000 V		4.9970 V	0.00400 V	75%	i.O.	$20 \cdot 10^{-6}$
Range 10V							

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Kanal 1-12						
10 V	10.0000 V		9.995 V	0.0080 V	63% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.995 V	0.0080 V	63% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.998 V	0.0080 V	25% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.996 V	0.0080 V	50% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.997 V	0.0080 V	38% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.999 V	0.0080 V	13% i.O.	$100 \cdot 10^{-6}$
10 V	10.0000 V		9.996 V	0.0080 V	50% i.O.	$100 \cdot 10^{-6}$
Range 20V						
Kanal 1-12						
20 V	20.0000 V		19.990 V	0.0160 V	63% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.996 V	0.0160 V	25% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.994 V	0.0160 V	38% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.995 V	0.0160 V	31% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.990 V	0.0160 V	63% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.996 V	0.0160 V	25% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.995 V	0.0160 V	31% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.995 V	0.0160 V	31% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.995 V	0.0160 V	31% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.995 V	0.0160 V	31% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.998 V	0.0160 V	13% i.O.	$50 \cdot 10^{-6}$
20 V	20.0000 V		19.993 V	0.0160 V	44% i.O.	$50 \cdot 10^{-6}$
Range 50V						
Kanal 1-12						
50 V	50.0000 V		49.970 V	0.0400 V	75% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.990 V	0.0400 V	25% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.990 V	0.0400 V	25% i.O.	$20 \cdot 10^{-6}$
50 V	50.0000 V		49.980 V	0.0400 V	50% i.O.	$20 \cdot 10^{-6}$
Range 100V						
Kanal 1-12						

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
100 V	100.000 V		99.95 V	0.080 V	63% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.96 V	0.080 V	50% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.98 V	0.080 V	25% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.98 V	0.080 V	25% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.98 V	0.080 V	25% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.99 V	0.080 V	13% i.O.	$100 \cdot 10^{-6}$
100 V	100.000 V		99.97 V	0.080 V	38% i.O.	$100 \cdot 10^{-6}$
Range 200V						
Kanal 1-12						
200 V	200.000 V		199.92 V	0.160 V	50% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.97 V	0.160 V	19% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.96 V	0.160 V	25% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.97 V	0.160 V	19% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.96 V	0.160 V	25% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		200.00 V	0.160 V	0% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.98 V	0.160 V	13% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.95 V	0.160 V	31% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		200.00 V	0.160 V	0% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		200.00 V	0.160 V	0% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.99 V	0.160 V	6% i.O.	$50 \cdot 10^{-6}$
200 V	200.000 V		199.95 V	0.160 V	31% i.O.	$50 \cdot 10^{-6}$
DC Spannung Linearität 10V						
Kanal 1-12						
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		0.999 V	0.0035 V	29% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
10 V	1.0000 V		1.000 V	0.0035 V	0% i.O.	$1{,}0 \cdot 10^{-3}$
DC Spannung Linearität 10V						
Kanal 1-12						
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		2.000 V	0.0040 V	0% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		1.999 V	0.0040 V	25% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		2.000 V	0.0040 V	0% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		2.000 V	0.0040 V	0% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		2.000 V	0.0040 V	0% i.O.	$500 \cdot 10^{-6}$
10 V	2.0000 V		2.000 V	0.0040 V	0% i.O.	$500 \cdot 10^{-6}$
DC Spannung Linearität 10V						
Kanal 1-12						
10 V	4.0000 V		3.998 V	0.0050 V	40% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.998 V	0.0050 V	40% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.998 V	0.0050 V	40% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		4.000 V	0.0050 V	0% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.998 V	0.0050 V	40% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		4.000 V	0.0050 V	0% i.O.	$250 \cdot 10^{-6}$
10 V	4.0000 V		3.999 V	0.0050 V	20% i.O.	$250 \cdot 10^{-6}$
DC Spannung Linearität 10V						
Kanal 1-12						
10 V	6.0000 V		5.997 V	0.0060 V	50% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.999 V	0.0060 V	17% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.998 V	0.0060 V	33% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.998 V	0.0060 V	33% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.997 V	0.0060 V	50% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.999 V	0.0060 V	17% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.998 V	0.0060 V	33% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.997 V	0.0060 V	50% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.999 V	0.0060 V	17% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.999 V	0.0060 V	17% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.999 V	0.0060 V	17% i.O.	$170 \cdot 10^{-6}$
10 V	6.0000 V		5.998 V	0.0060 V	33% i.O.	$170 \cdot 10^{-6}$
DC Spannung Linearität 10V						
Kanal 1-12						
10 V	8.0000 V		7.996 V	0.0070 V	57% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.998 V	0.0070 V	29% i.O.	$130 \cdot 10^{-6}$

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Bereich range	Nominalwert nominal value	Messbedingung measuring condition	Messwert indicated value	zulässige Abweichung allowed deviation	Ausnutzung der Toleranz in % utilization of tolerance in %	Messunsicherheit (k=2) measuring uncertainty (k=2)
10 V	8.0000 V		7.997 V	0.0070 V	43% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.998 V	0.0070 V	29% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.997 V	0.0070 V	43% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.998 V	0.0070 V	29% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.999 V	0.0070 V	14% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.997 V	0.0070 V	43% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.999 V	0.0070 V	14% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.998 V	0.0070 V	29% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.999 V	0.0070 V	14% i.O.	$130 \cdot 10^{-6}$
10 V	8.0000 V		7.997 V	0.0070 V	43% i.O.	$130 \cdot 10^{-6}$
DC Spannung Linearität 10V						
Kanal 1-12						
1370 °C	100.00 °C		100.1 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		100.1 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		100.1 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		100.1 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		99.9 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		99.9 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		100.1 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		99.8 °C	0.55 °C	36% i.O.	1,0 mK
1370 °C	100.00 °C		99.8 °C	0.55 °C	36% i.O.	1,0 mK
1370 °C	100.00 °C		99.9 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		99.9 °C	0.55 °C	18% i.O.	1,0 mK
1370 °C	100.00 °C		99.8 °C	0.55 °C	36% i.O.	1,0 mK

Zulässige Abweichung gemäß Herstellerangabe
allowed deviation in accordance with manufacturer