

Von der Schweizerischen Akkreditierungsstelle akkreditierte Kalibrierstelle
Laboratoire d'étalonnage accrédité par le Service d'Accréditation Suisse
Calibration Laboratory accredited by the Swiss Accreditation Service

S Akkreditierungs-Nr.
C No. d'accréditation **SCS 0002**
S Accreditation No.

The Swiss Accreditation Service is one of the signatories to the EA
Multilateral Agreement for the recognition of calibration certificates

Zertifikat Nr.
No. du certificat **38762**
Certificate No.

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KALIBRIER – ZERTIFIKAT CERTIFICAT D'ÉTALONNAGE CERTIFICATE OF CALIBRATION

Instrument
Instrument
Instrument

Meter Calibration Kit

Hersteller
Fabricant
Manufacturer

MT

Typ
Type
Model

ME-51302410

Serien- / Inventar-Nr.
No. de série- / inventaire
Serial- / Inv. No.

A527

Kunde
Client
Customer

Mettler-Toledo GmbH, 8606 Nänikon

Auftragsnummer
No. de la commande
Order No.

n/a

Bemerkungen
Remarques
Remarks

n/a

Datum der Kalibrierung
Date de l'étalonnage
Date of calibration

01. Februar 2024

Dieses Kalibrierzertifikat dokumentiert die Rückverfolgbarkeit auf nationale Normale zur Darstellung der physikalischen Einheiten (SI).
Ce certificat d'étalonnage confirme le raccordement aux étalons nationaux qui matérialisent les grandeurs physiques (SI).
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).

Messresultate, Messunsicherheiten mit Vertrauensbereich und Messverfahren sind auf den folgenden Seiten aufgeführt und sind Teil des Zertifikats.
Les résultats, les incertitudes avec le niveau de confiance et les méthodes de mesure sont donnés aux pages suivantes et font partie du certificat.
The measurements, the uncertainties with confidence probability and calibration methods are given on the following pages and are part of the certificate.

Stempel und Datum
Timbre et Date
Stamp and date

ELCAL
Messgeräte • Service • Kalibration

Dietikon, 01. Februar 2024

Leiter der Kalibrierstelle
Chef du laboratoire d'étalonnage
Head of the Calibration Laboratory


Christoph Stampfli

Dieses Kalibrierzertifikat darf ohne die schriftliche Zustimmung des Laboratoriums nicht auszugsweise vervielfältigt werden.
Ce certificat ne doit pas être reproduit, sinon en entier, sans l'autorisation écrite du laboratoire.
This calibration certificate shall not be reproduced except in full, without written approval of the laboratory.

Testreport
408127

Certificate : SCS 38762
Unit under Test : MT ME-51302410 Meter Calibration Kit
Serial No : A527
Customer : Mettler-Toledo GmbH, 8606 Nänikon
Inventory No :
Date : 01.02.2024
Operator : L. Pascale

TRACEABILITY INFORMATION

Instruments used:	Serial No:	Inventory No:	Cal Due Date:
H P 3458A	2823A07311	LAB-482	20.04.2024
FLUKE 5026A-S	A52176	LAB-195A	01.08.2024

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
Measurements beyond the current accreditation are marked with *.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approx 95%.

SUMMARY OF LAST RECORDED CAL DATA

This certificate records the calibration status.
Points where %Tol exceeds the adjustment threshold are marked with a "M".
Points where %Tol exceeds the specification limit are marked with a "F".
The calibration status is calculated neglecting the measurement uncertainty.

Number of Test Marginal:
Number of Test Failed:

0
0

INSTRUMENTAL

Testreport
408127

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Inventory No :
Date : 01.02.2024
Operator : L. Pascale

TEST RANGE	UUT INDICATED	SYSTEM ACTUAL	MODIFIER	ERROR ERROR	EXP. M (%TOL)	UNCERT F
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Actual Ambient Temp. 22.6 ±0.5°C / Humidity 29.3%

Marginal limit 80% of UUT Tol.

METTLER: ME-51302410 Meter Calibration Kit

All Tests refer 0.3% of Nominal Resistor Value

Std. Resistors with Banana Connector Test:

1	1.00000kΩ	1.000043kΩ	0°C_Res	43.0 ppm	1	110mΩ
2	1.09735kΩ	1.097594kΩ	25°C_Res	0.022 %	7	110mΩ
3	1.19397kΩ	1.194079kΩ	50°C_Res	91.3 ppm	3	110mΩ
4	1.28987kΩ	1.289983kΩ	75°C_Res	87.6 ppm	3	110mΩ
5	1.38506kΩ	1.385170kΩ	100°C_Res	79.4 ppm	3	110mΩ

Std. Resistors with Cinch Connector Test:

6	94.980kΩ	94.9347kΩ	0°C_Res	-0.048 %	16	670mΩ
7	30.000kΩ	29.9957kΩ	25°C_Res	-0.014 %	5	230mΩ
8	10.969kΩ	10.9717kΩ	50°C_Res	0.025 %	8	76mΩ
9	4.528kΩ	4.52647kΩ	75°C_Res	-0.034 %	11	34mΩ
10	2.070kΩ	2.06969kΩ	100°C_Res	-0.015 %	5	17mΩ

End of METTLER: ME-51302410 Meter Calibration Kit