

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. **SCS 0002**  
C No. d'accréditation  
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. **38027**  
No. du certificat  
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.

A523

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. November 2023

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. November 2023

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



Christoph Stampfli

Testreport  
408128

Certificate : SCS 38027  
Unit under Test : MT ME-51302410 Meter Calibration Kit  
Serial No : A523  
Customer : Mettler-Toledo GmbH, 8606 Nänikon  
Inventory No :  
Date : 01.11.2023  
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: 0  
Number of Test Failed: 0



Testreport  
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TEST RANGE	UUT INDICATED	SYSTEM ACTUAL	MODIFIER	ERROR ERROR	EXP. M (%TOL)	UNCERT F
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Actual Ambient Temp. 22.5 ±0.5°C / Humidity 32.2%

Marginal limit 80% of UUT Tol.

METTLER: ME-51302410 Meter Calibration Kit

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All Tests refer 0.3% of Nominal Resistor Value

Std. Resistors with Banana Connector Test:

1	1.00000kΩ	1.000142kΩ	0°C_Res	0.014 %	5	110mΩ
2	1.09735kΩ	1.097500kΩ	25°C_Res	0.014 %	5	110mΩ
3	1.19397kΩ	1.194119kΩ	50°C_Res	0.012 %	4	110mΩ
4	1.28987kΩ	1.290116kΩ	75°C_Res	0.019 %	6	110mΩ
5	1.38506kΩ	1.385099kΩ	100°C_Res	28.2 ppm	1	110mΩ

Std. Resistors with Cinch Connector Test:

6	94.980kΩ	94.9558kΩ	0°C_Res	-0.025 %	8	670mΩ
7	30.000kΩ	30.0142kΩ	25°C_Res	0.047 %	16	230mΩ
8	10.969kΩ	10.9694kΩ	50°C_Res	36.5 ppm	1	76mΩ
9	4.528kΩ	4.52823kΩ	75°C_Res	50.8 ppm	2	34mΩ
10	2.070kΩ	2.07007kΩ	100°C_Res	33.8 ppm	1	17mΩ

End of METTLER: ME-51302410 Meter Calibration Kit