

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 **25277**
Certificate No.

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KALIBRIER – ZERTIFIKAT CERTIFICAT D'ÉTALONNAGE CERTIFICATE OF CALIBRATION

Instrument
Instrument
Instrument

Calibration Kit

Hersteller
Fabricant
Manufacturer

MT

Typ
Type
Model

ME-51302410

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

A311

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

27. Mai 2019

**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, 27. Mai 2019

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

Christoph Stampfli

Testreport
362496

Certificate : SCS 25277
Unit under Test : MT ME-51302410 Calibration Kit
Serial No : A311
Customer : Mettler-Toledo GmbH, 8606 Nänikon
Inventory No :
Date : 27.05.2019
Operator : M. Huerlemann

TRACEABILITY INFORMATION

Instruments used:	Serial No:	Inventory No:	Cal Due Date:
Fluke Hart 2626-S	B81544	LAB-436A	03.01.2020
Agilent 3458A/01/02/H01	MY45040974	LAB-199	17.07.2019

All listed result are direct traceable to the Swiss Federal Office of Metrology, as far as listed in the uncertainty table of the SCS Certificate. 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



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TEST RANGE	UUT INDICATED	SYSTEM ACTUAL	MODIFIER	ERROR	ERROR (%TOL)	EXP. M	UNCERT F
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Actual Ambient Temp. 23.5 ±0.5°C / Humidity 42.5%

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	0.999993kΩ	0°C_Res	-7.00 ppm	0	106mΩ
2	1.09735kΩ	1.097419kΩ	25°C_Res	62.9 ppm	2	106mΩ
3	1.19397kΩ	1.194091kΩ	50°C_Res	0.010 %	3	107mΩ
4	1.28987kΩ	1.290110kΩ	75°C_Res	0.019 %	6	110mΩ
5	1.38506kΩ	1.385160kΩ	100°C_Res	72.2 ppm	2	111mΩ

Std. Resistors with Cinch Connector Test:

6	94.980kΩ	94.9960kΩ	0°C_Res	0.017 %	6	540mΩ
7	30.000kΩ	29.9844kΩ	25°C_Res	-0.052 %	17	193mΩ
8	10.969kΩ	10.9652kΩ	50°C_Res	-0.035 %	12	62mΩ
9	4.528kΩ	4.5269kΩ	75°C_Res	-0.024 %	8	27mΩ
10	2.070kΩ	2.06954kΩ	100°C_Res	-0.022 %	7	14mΩ

End of METTLER: ME-51302410 Meter Calibration Kit

