TURKISH ACCREDITATION AGENCY

ACCREDITATION CERTIFICATE

As a Calibration Laboratory

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Central Address: SANAYİ MAH. HAVAALANI İÇ YOLU CAD. NO:3 PENDİK İstanbul / Türkiye

is accredited in accordance with TS EN ISO/IEC 17025:2017 standard within the scope given in Annex following the assessment conducted by TURKAK.

Accreditation Number : AB-0092-K

Accreditation Date : 03.02.2012

Revision Date / Number : 07.06.2024 / 14

This certificate shall remain in force until **09.02.2028**, subject to continuing compliance with the standard **TS EN ISO/IEC 17025:2017**, related regulations and requirements.

Gülden Banu Müderrisoğlu
Secretary General

Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Agreement (MRA) in the scope of ISO/IEC 17025.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

TÜRKAK
Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr: AB-0092-K
Revision Nr: 14 Date: 07.06.2024

Calibration Laboratory

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Calibration and Measurement Capability (CMC)

Time and Frequency

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	4 ns ≤ *t* < 40 ns	input impedance 50 Ω U ≤ 1 V	2,0 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	40 ns ≤ *t* < 400 ns	input impedance 50 Ω U ≤ 1 V	2,9 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	400 ns ≤ *t* < 4 µs	input impedance 50 Ω U ≤ 1 V	1,4 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	4 µs ≤ t < 40 µs	input impedance 50 Ω U ≤ 1 V	1,4 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	40 µs ≤ *t* < 400 µs	input impedance 50 Ω U ≤ 1 V	4,4 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	400 µs ≤ *t* < 4 ms	input impedance 50 Ω U ≤ 1 V	2,3 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	4 ms ≤ *t* < 40 ms	input impedance 50 Ω U ≤ 1 V	4,2 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	40 ms ≤ *t* < 400 ms	input impedance 50 Ω U ≤ 1 V	1,1 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Horizontal Deflection (Time) Oscilloscope	400 ms ≤ *t* < 1 s	input impedance 50 Ω U ≤ 1 V	1,8 ms/s	***t:*** Applied time interval (s) ***U***:Applied peak-to-peak voltage (V) with Fluke 9500B
Signal and Pulse Characteristics Band width Oscilloscope	10 MHz≤ *Δf* ≤ 3,2 GHz	*U* ≤ 3	%2,7 · Δf	***Δf***: Measured bandwidth (Hz) ***U:***Applied peak-to-peak voltage (V) with Fluke 9500B

Accreditation Scope

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Frequency Frequency Meters Frequency Counter	0,1 Hz ≤ *f* < 10 Hz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$1{,}0 \cdot 10^{-5} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	0,1 Hz ≤ *f* < 10 Hz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	10 Hz ≤ *f* < 100 Hz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$1{,}8 \cdot 10^{-7} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	10 Hz ≤ *f* < 100 Hz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	100 Hz ≤ *f* < 1 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-8} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	100 Hz ≤ *f* < 1 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	1 kHz ≤ *f* < 10 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-9} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	1 kHz ≤ *f* < 10 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	10 kHz ≤ *f* < 100 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	10 kHz ≤ *f* < 100 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Meters Frequency Counter	100 kHz ≤ *f* < 20 GHz	Gate Time:10 s *U* ≤ 12 V	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified

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Frequency Frequency Sources Frequency Generator	0,1 Hz ≤ *f* < 10 Hz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$1{,}0 \cdot 10^{-5} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	0,1 Hz ≤ *f* < 10 Hz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	10 Hz ≤ *f* < 100 Hz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$1{,}8 \cdot 10^{-7} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	10 Hz ≤ *f* < 100 Hz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	100 Hz ≤ *f* < 1 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-8} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	100 Hz ≤ *f* < 1 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}0 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	1 kHz ≤ *f* < 10 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-9} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	1 kHz ≤ *f* < 10 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	10 kHz ≤ *f* < 100 kHz	Gate Time:10 s *U* ≤ 12 V Sine Wave	$3{,}6 \cdot 10^{-10} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	10 kHz ≤ *f* < 100 kHz	Gate Time:10 s *U* ≤ 12 V Square Wave	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified
Frequency Frequency Sources Frequency Generator	100 kHz ≤ f ≤ 20 GHz	Gate Time:10 s *U* ≤ 12 V	$1{,}4 \cdot 10^{-11} \cdot f$	***f:*** Measured frequency (Hz) ***U:*** Amplitude of the applied signal (V) GPS Rectified

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Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	-20 s/g ≤ t ≤ +20 s/g	-	0,069 s/g	***t:*** Measured Daily Deviation (s/g) Direct Reading with Reference Calibrator
Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	1 s ≤ *t* ≤ 3600 s	-	0,027 s	***t:*** Measured Time Interval (s) Comparison Method with Reference Frequency Meter
Time Range Interval Meters Time Difference Meter (Frequency Counter, Stopwatch, Timer)	1 s ≤ *t* ≤ 3600 s	-	0,057 s	on-site calibrations with stopwatch
Frequency Frequency Meters Tachometer	60 rpm ≤ ω ≤ 99900 rpm	0,01 rpm ≤ *r* ≤ 1 rpm	$5{,}7 \cdot 10^{-6}$. ω + r rpm	ω: Measured RPM (rpm) r: Resolution With the help of the frequency applied to the Optical LED with the Fluke 5522A Calibrator

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Calibration and Measurement Capability (CMC)

Temperature

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Temperature Meters With Indicator Resistance	-40 °C ≤ *T* ≤ 70 °C	Climate Chamber	0,58 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Resistance	-25 °C < T < 150 °C	Liquid Bath	0,05 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Resistance	-95 °C < T < 140 °C	Block Calibrator	0,03 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Resistance	140 °C < T < 650 °C	Block Calibrator	0,1 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	-95 °C < T < 140 °C	Block Calibrator	0,08 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	140 °C < T < 650 °C	Block Calibrator	0,31 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	-40 °C < T < 70 °C	Climate Chamber	0,58 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	-25 °C < T < 260 °C	Liquid Bath	0,12 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	650 °C < T < 950 °C	Block Calibrator	1,6 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Temperature Meters With Indicator Thermocouple Sensor	950 °C < T < 1100 °C	Block Calibrator	2,1 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Standard Platinum Resistance Thermometers Platinium Resistive Thermometer (PRT)	-25 °C ≤ *T* ≤ 260 °C	Liquid Baths	0,05 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Standard Platinum Resistance Thermometers Platinium Resistive Thermometer (PRT)	-95 °C ≤ *T* ≤ 140 °C	Block Calibrator	0,03 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**

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Standard Platinum Resistance Thermometers Platinium Resistive Thermometer (PRT)	140 °C ≤ *T* ≤ 650 °C	Block Calibrator	0,1 °C	Comparative Calibration Method (Ice Point uncertanity is included) **T: Measured Temperature**
Thermocouples	-40 °C ≤ T ≤ 70 °C	Climate Chamber	0,66 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertanity is included) **T: Measured Temperature**
Thermocouples	-25 °C ≤ T ≤ 260 °C	Liquid Bath	0,33 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertanity is included) **T: Measured Temperature**
Thermocouples	-95 °C ≤ T ≤ 140 °C	Block Calibrator	0,1 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertanity is included) **T: Measured Temperature**
Thermocouples	140 °C ≤ T ≤ 650 °C	Block Calibrator	0,44 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertanity is included) **T: Measured Temperature**
Thermocouples	650 °C ≤ T ≤ 1100 °C	Block Calibrator	1,3 °C	For K, J, E, T, R, S, N, U Type (Except B Type on Negative Temperature) (Ice Point Uncertanity is included) **T: Measured Temperature**
Other Measurement Services Dry-Block Calibrators	-40 °C < T < 650 °C	Stability and Temperature Distribution Measurement	1,1 °C	According to EURAMET/cg-13 **T: Measured Temperature**
Other Measurement Services Dry-Block Calibrators	650 °C < T < 1100 °C	Stability and Temperature Distribution Measurement	1,4 °C	According to EURAMET/cg-13 **T: Measured Temperature**
Controlled Volumes (Temperature Distribution) Cold Room (Deep Freezer etc.) Climate Chamber Temperature Bath ETUV	-95 °C < T < 150 °C	Climate Chamber	1,8 °C	**T: Measured Temperature** Dakks DKD-R 5-7, Euramet cg-20, EN 60068-3-5, EN60068-3-11
Controlled Volumes (Temperature Distribution) Cold Room (Deep Freezer etc.) Climate Chamber Temperature Bath ETUV	150 °C < T < 850 °C	High Temperature Oven	3 °C	**T: Measured Temperature** Dakks DKD-R 5-7, Euramet cg-20, EN 60068-3-5, EN60068-3-11
Controlled Volumes (Temperature Distribution) Cold Room (Deep Freezer etc.) Climate Chamber Temperature Bath ETUV	-25 °C < T < 280 °C	Liquid Bath	0,05 °C	**T: Measured Temperature** Dakks DKD-R 5-7, Euramet cg-20, EN 60068-3-5, EN60068-3-11

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-200 °C < T < 1372 °C	K type	0,12 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-250 °C < T < 400 °C	T type	0,16 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-210 °C < T < 1200 °C	J type	0,13 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-250 °C < T < 1000 °C	E type	0,12 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	0 °C < T < 1767 °C	S type	0,60 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	0 °C < T < 1767 °C	R type	0,61 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-200 °C < T < 1300 °C	N type	0,16 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-200 °C < T < 1372 °C	K type	0,11 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-250 °C < T < 400 °C	T type	0,15 °C	**T: Measured Temperature** EURAMET/cg-11

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-210 °C < T < 1200 °C	J type	0,10 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-250 °C < T < 1000 °C	E type	0,10 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	0 °C < T < 1767 °C	S type	0,60 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	0 °C < T < 1767 °C	R type	0,61 °C	**T: Measured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-200 °C < T < 1300 °C	N type	0,15 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators RTD (PT 100 vb.)	-200 °C < T < 800 °C	-	0,24 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-200 °C < T < 1372 °C	K type	0,15 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-250 °C < T < 400 °C	T type	0,21 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-210°C < T < 1200 °C	J type	0,19 °C	**T: Meaured Temperature** EURAMET/cg-11

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	0 °C < T < 1767 °C	S type	0,49 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	0 °C < T < 1767 °C	R type	0,47 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction ON	-200 °C < T < 1300 °C	N type	0,16 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-200 °C < T < 1372 °C	K type	0,14 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-250 °C < T < 400 °C	T type	0,18 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-210 °C < T < 1200 °C	J type	0,13 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-250 °C < T < 1000 °C	E type	0,13 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	0 °C < T < 1767 °C	S type	0,47 °C	**T: Meaured Temperature** EURAMET/cg-11

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Temperature Indicators and Calibrators Temperature Indicators Cold Junction OFF	-200 °C < T < 1300 °C	N type	0,16 °C	**T: Meaured Temperature** EURAMET/cg-11
Temperature Indicators and Calibrators Temperature Indicators Sıcaklık Kalibratörü RTD (PT 100 vb.)	-200 °C < T < 800 °C	-	0,16 °C	**T: Meaured Temperature** EURAMET/cg-11
Industrial Radiation Thermometers Pyrometer Thermal camera IR Thermometer	-25 °C < T < 100 °C	With Bath	0,6 °C	Calibration Procedure prepared according to BS EN 12470-5 VDI VDE DGQ 3511 ASTM E 2847 ***T:* Ölçülen Sıcaklık [°C]**
Industrial Radiation Thermometers Pyrometer Thermal camera IR Thermometer	50 °C < T < 300 °C	With IR Calibrator	1,8 °C	Calibration Procedure prepared according to BS EN 12470-5 VDI VDE DGQ 3511 ASTM E 2847 ***T:* Ölçülen Sıcaklık [°C]**
Industrial Radiation Thermometers Pyrometer Thermal camera IR Thermometer	300 °C < T < 500 °C	With IR Calibrator	2,8 °C	Calibration Procedure prepared according to BS EN 12470-5 VDI VDE DGQ 3511 ASTM E 2847 ***T:* Ölçülen Sıcaklık [°C]**
Industrial Radiation Thermometers Pyrometer Thermal camera IR Thermometer	500 °C < T < 650 °C	With IR Calibrator	3,8 °C	Calibration Procedure prepared according to BS EN 12470-5 VDI VDE DGQ 3511 ASTM E 2847 ***T:* Ölçülen Sıcaklık [°C]**
Industrial Radiation Thermometers IR Ear Thermometer	34 °C < T < 42 °C	With Bath	0,15 °C	Calibration Procedure prepared according to BS EN 12470-5 VDI VDE DGQ 3511 ASTM E 2847 ***T:* Ölçülen Sıcaklık [°C]**
Hygrometers Hygrometer Relative Humidity Meter (Datalogger) Relative Humidity Meter (Digital/Analog)	30 % rh ≤ *RH* ≤ 95 % rh	In Humidity and Temperature Chamber 15 °C ≤ *T* ≤ 30 °C	2 % rh	Comparative Calibration Method **RH: Measured Relative Humidity** **T: Measured Temperature**

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Controlled Volumes (Relative Humidity Distribution) Climate Chamber Relative Humidity Source Sterilizer (Autoclave)	30 % rh ≤ *RH* ≤ 60 % rh	Central Relative Humidity Measurement (Single Point) 21 °C ≤ T ≤ 25 °C	1,6 % rh	**RH: Measured Humidity** **T: Measured Temperature** Dakks DKD-R 5-7, Eurametcg-20, EN 60068-3-5, EN 60068-3-6, EN 60068-3-11
Controlled Volumes (Relative Humidity Distribution) Climate Chamber Relative Humidity Source Sterilizer (Autoclave)	60 % rh ≤ *RH* ≤ 95 % rh	Central Relative Humidity Measurement (Single Point) 21 °C ≤ T ≤ 25 °C	2,5 % rh	**RH: Measured Humidity** **T: Measured Temperature** Dakks DKD-R 5-7, Eurametcg-20, EN 60068-3-5, EN 60068-3-6, EN 60068-3-11

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Calibration and Measurement Capability (CMC)

Dimensional Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Dimension Standards Gauge Block (short 0.5 mm - 100 mm)	0,5 mm ≤ L ≤ 100 mm	Vertical Orientation	(0,12 + 9 · *L*) *µm*	Procedure according to VDI/VDE/DGQ 2618, Bl. 3.1, ASMEB89.1.9-2002 document **L : Measured value** Calibration is done in the laboratory.
Dimension Standards Long Gauge Block (Length Bar) (125 mm- 1000 mm)	100 mm ≤ L ≤ 500 mm	Horizontal Orientation	(0,23 + 9 · *L*) *µm*	Procedure according to VDI/VDE/DGQ 2618, Bl. 3.1, ASMEB89.1.9-2002 document **L : Measured value** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Dial Indicator (Comparator)	0 mm < L ≤ 100 mm	r: 0,001 mm	(1,5 + 20 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Ch. part 11.1 document **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Precision Comparator	0 mm < L ≤ 3 mm	r: 0,001 mm	1 µm	Procedure according to VDI/VDE/DGQ 2618 Ch. part 11.2 document **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Secretion Comparator (Precision Examiner)	0 mm < L ≤ 2 mm	r: 0,001 mm	1 µm	Procedure according to VDI/VDE/DGQ 2618 Ch. part 11.3 document **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	0 mm < L ≤ 50 mm	r: 0,001 mm	(1 + 10 · L) µm	Comparison with Gauge Blocks **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.

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Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	External Dimensions 0 mm < L ≤ 200 mm	r: 0,005 mm	(4 + 10 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Parts 12.1 and 13.1 **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thickness Meter (Thickness Comparator)	Internal Dimensions 0 mm < L ≤ 100 mm	r: 0,05 mm	(6 + 10 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Parts 12.1 and 13.1 **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Caliper (External diameter, Internal diameter, Depth, Step measurements)	0 mm < L ≤ 500 mm	Internal and External Measurements, Depth and Step Measurement r: 0,01 mm	(7 + 13 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 9.1 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Caliper (External diameter, Internal diameter, Depth, Step measurements)	500 mm < L ≤ 2000 mm	Internal and External Measurements, Depth and Step Measurement r: 0,01 mm	(10 + 20 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 9.1 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Caliper	0 mm < L ≤ 500 mm	r: 0,01 mm	(13 + 5 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 9.2 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Caliper	500 mm < L ≤ 1000 mm	r: 0,01 mm	(11 + 9 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 9.2 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Height Measuring Device (Height Gauge)	0 mm < L ≤ 1000 mm	r: 0.001 mm	(3,1 + 20 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 9.3 and 16.1 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.

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Handheld Basic Measuring Devices Outer Diameter Micrometry	0 mm < L ≤ 500 mm	r: 0,001 mm	(1,5 + 12 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.1 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Outer Diameter Micrometry	500 mm < L ≤ 1500 mm	r: 0.01 mm	(3,5 + 12 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.1 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Passometer Scale	0 mm < L ≤ 500 mm	r: 0.001 mm	1 µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.3 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Passometer Scale	500 mm < L ≤ 1500 mm	r: 0.002 mm	1,5 µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.3 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Depth Micrometry	0 mm < L ≤ 300 mm	r: 0.001 mm	(1,5 + 8 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.5 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Two-Point Inner Diameter Micrometry	25 mm < L ≤ 590 mm	r: 0.001 mm	(1,2 + 3 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.7 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Three-Point Inner Diameter Micrometry	2,5 mm < L ≤ 205 mm	r: 0.001 mm	(2,3 + 2,1 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 10.8 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.

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Dimension Standards Micrometer Setting Bar [Flat, Screw]	25 mm < L ≤ 590 mm	-	(0,8 + 3,3 · *L*) *µm*	Procedure according to VDI/VDE/DGQ 2618 Part 4.4 Documents **r: Resolution** **L: Measured Length [m]** Calibration is done in the laboratory.
Diameter Standards Exterior Cylinder (Bumper Mastar (Ref, Pass- not pass, etc.) Piston, Pin (Screw Measuring Pins) Wire, Setting Gauge)	0,2 mm ≤ *D* ≤ 100 mm	-	(1,1 + 15 · D) *µm*	Procedure according to VDI/VDE/DGQ 2618 Part 4.1 Documents **D: Diameter [m]** Calibration is done in the laboratory.
Diameter Standards Internal Cylinder (Ring Mastar (Ref, Passes-not pass etc.))	1 mm ≤ *D* ≤ 305 mm	-	(1,1 + 20 · D) *µm*	Procedure according to VDI/VDE/DGQ 2618 Part 4.1 Documents **D: Diameter [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Snap Gauge (Inner , Outer)	5 mm < L ≤ 150 mm	-	(1 + 5 · L) µm	Procedure according to VDI/VDE/DGQ 2618 Part 4.7 Documents **L: Measured Length [m]** Calibration is done in the laboratory.
Diameter Standards Gauge Pin and Screw Thread	0,1 mm ≤ *D* ≤ 20 mm	Steel	(0,8 + 2 · D) *µm*	Procedure according to VDI/VDE/DGQ 2618 Part 4.2 Documents **D: Diameter [m]** Calibration is done in the laboratory.
Screw Standards Flat Screw Plug Gauge	Outer Screw Thread 1 mm ≤ D ≤ 100 mm	Step: 0,35 mm - 6 mm	4,50 µm	Procedure according to VDI/VDE/DGQ 2618 Bölüm 4.8, ISO 228, BS 919, ISO 1502, ANSI/ASME B1.1, B1.2 Documents Go - NoGo Control **D: Measured Part Diameter [m]** Calibration is done in the laboratory.
Screw Standards Flat Screw Ring Gauge	Inner Screw Thread 5 mm ≤ D ≤ 100 mm	Step: 0,35 mm - 6 mm	3,65 µm	Procedure according to VDI/VDE/DGQ 2618 Bölüm 4.8, ISO 228, BS 919, ISO 1502, ANSI/ASME B1.1, B1.2 Documents Go - NoGo Control **D: Measured Part Diameter [m]** Calibration is done in the laboratory.

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Angle Measuring Devices (Bevel) Protractor	$\alpha \leq 360°$	Measurement Arm Until 300 mm	1'	Procedure according to VDI/VDE/DGQ 2618 Part 7.2 Documents **α: Açı** **L: Measured Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Radius Gauges	1 mm < L ≤ 25 mm	-	14,5 µm	Optical Measurement Method **r: Radius** Calibration is done in the laboratory.
Dimension Standards Thickness gauge (Synthyl etc.(Feeler Gauge))	0,03 mm < L ≤ 2 mm	-	0,5 μm	Procedure according to DIN 2275 Documents **L: Thickness** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Steel Ruler	0 mm < L ≤ 500 mm	-	(14 + 5 · L) µm	Optical Measurement Method Comparison Method with Reference Ruler Procedure according to DIN 865, DIN 866 Documents **L: Length** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Steel Ruler	0 mm < L ≤ 3000 mm	-	(93 + 18 · L) µm	Optical Measurement Method Comparison Method with Reference Ruler Procedure according to DIN 865, DIN 866 Documents **L: Length** Calibration is done in the laboratory.
Dimension Standards Type Meter	0 mm < L ≤ 50 m	-	(82 + 18 · L) μm	Procedure according to TS 9505 Documents **L: Length** Calibration is done in the laboratory.
Reference Materials [Sieve, Mesh] Aperture (Aperture)	20 µm ≤ L ≤ 125 mm	Mesh Range	13 µm	Procedure according to ISO 3310 Documents **L: Measured Mesh Gap Value** Calibration is done in the laboratory.
Coating Thickness Coating Thickness Standard (Thickness Foils)	7 µm ≤ L ≤ 8000 µm	-	0,7 µm	DIN EN ISO 2178 **L: Thickness** Calibration is done in the laboratory.

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Handheld Basic Measuring Devices Ultrasonic Thickness Meter	0 mm < L ≤ 100 mm	r: 0,001 mm	5 µm	Gauge Measurement Method **r: Resolution** Calibration is done in the laboratory.
2 -Dimension 3-Dimension Measuring Devices Profile Projection	0 mm ≤ L ≤ 200 mm	r: 0,001 mm	(7,2 + 7 · *L*) *µm*	VDI/VDE/DGQ 2617 Length Scale Control **L: Measured Length** **r: Resolution** Calibration is done in the laboratory.
Coating Thickness Coating Thickness Measuring Device	0 mm ≤ L ≤ 2 mm	r: 0,001 mm	2,5 µm	DIN EN ISO 2178 **L: Measured Thickness** **r: Resolution** Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	0 mm < *L* ≤ 200 mm	Steepness / Flatness	(13 + 5 · *L*) *µm*	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents **L: Length** Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	0 mm < *L* ≤ 500 mm	Steepness	(23 + 4 · *L*) *µm*	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents **L: Length** Calibration is done in the laboratory.
Angle Measuring Devices Steel Squares	0 mm < *L* ≤ 500 mm	Flatness	(12 + 10 · *L*) *µm*	Optical Measurement Method Procedure according to VDI/VDE/DGQ 2618 Part 7.1 Documents **L: Length** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	0,1 mm < L ≤ 7 mm	Pitch	14,1 µm	Optical Measurement Method **L: Measured Step Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	0,1 mm ≤ L ≤ 7 mm	Angle (Angle Scale)	5,4'	Optical Measurement Method **L: Measured Step Length [m]** Calibration is done in the laboratory.
Handheld Basic Measuring Devices Thread Gauge	L ≤ 7 mm	Angle (Point Measurement)	14'	Optical Measurement Method **L: Measured Step Length [m]** Calibration is done in the laboratory.

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Length Measuring Devices Crimping Tool	Head size: 0,1 mm ≤ L ≤ 26 mm	Measurement with micrometer	4 µm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.
Length Measuring Devices Crimping Tool	Head size: 0,1 mm ≤ L ≤ 26 mm	Measurement with Go-No Go Gauge	10 µm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.
Length Measuring Devices Crimping Tool	Head size: 0,1 mm ≤ L ≤ 26 mm	Measurement with Profile Projection	14 µm	Calibration procedure prepared in accordance with manufacturer standards, using the MIL-DTL-22520G Document.

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Calibration and Measurement Capability (CMC)

Electricity-High Frequency Quantities (HF)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Radio Frequency (RF) Power **Absolute RF Power** RF Power Source Reference Power Output of RF Power Meters Signal Source	0,001 mW ≤ P ≤ 100 mW (-30 dBm·≤ P ≤ + 20 dBm)	100 kHz ≤ *f* < 4,2 GHz	% 6,64 · P	***P:*** Power Using 8482A Power Sensor and 4418A Power Meter In the laboratory • calibration is done.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

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Calibration and Measurement Capability (CMC)

Pressure

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	3 kPA ≤ p ≤ 3,5 MPa	Pneumatic (with DWT)	$1{,}6 \cdot 10^{-4}\, p$ + 72 Pa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p: Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	0,1 MPa ≤ p ≤ 3,5 MPa	Hydraulic (with DWT)	$1{,}7 \cdot 10^{-4}\, p$ + 60 Pa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p: Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	3,5 MPa ≤ p ≤ 70 MPa	Hydraulic (with DWT)	$1{,}8 \cdot 10^{-4} \cdot p$ + 0,47 kPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p: Measured value (Pa)
Relative Pressure Analog Manometer Digital Manometer Pressure Transducer	-90 kPa ≤ p ≤ -10 kPa	Pneumatic (with DWT)	6 Pa + $1{,}4 \cdot 10^{-4} \cdot p$	p : Relative Pressure, (Pa) Calibration procedure prepared in accordance with the EURAMA/cg-17 document. ## Adjustments should be made by leaving the location(s) suitable for the place where the calibration activity is performed and deleting the other locations. Consider the R20-26 guide for scope entries.## • In customer place • In the laboratory • Temporary or mobile facilities calibration is made.
Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	10 kPa ≤ p ≤ *350 kPa*	Pneumatic (with RPM4)	$4{,}3 \cdot 10^{-5} \cdot p$ + 0,13 kPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p: Measured value (Pa)
Absolute Pressure Air Data Test Set (ADTS)	2,5 kPa ≤ p ≤ 350 kPa	Pneumatic (with RPM4)	$7 \cdot 10^{-5} \cdot p$ + 20 Pa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p: Measured value (Pa)

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Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	350 kPa ≤ *p* ≤ 3,5 MPa	Pneumatic	$3{,}6 \cdot 10^{-4} \cdot p + 0{,}2$ kPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • p: Measured value (Pa)
Absolute Pressure Analog Manometer Digital Manometer Pressure Transducer	3,5 MPa ≤ *p* ≤ 70 MPa	Hydraulic	$3{,}7 \cdot 10^{-4} \cdot p + 0{,}1$ kPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document p: Measured value (Pa)
Absolute Pressure Analog Barometer Digital Barometer	750 hPa ≤ *p* ≤ 1100 hPa	Barometric Cabin (with RPM4)	1,6 hPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document • *p*: Measured value (Pa)
Relative Pressure Difference Pressure Meter	50 Pa ≤ *p* ≤ 5000 Pa	with Difference Pressure Calibrator	$9{,}08 \cdot 10^{-4} \cdot p + 0{,}58$ Pa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document *p*: Measured value (Pa)
Relative Pressure Difference Pressure Meter	3 kPa ≤ *p* ≤ 7 MPa	with DWT	$1{,}8 \cdot 10^{-4} \cdot p + 0{,}47$ kPa	Calibration procedure prepared in accordance with EURAMET/CG-17 Guidance Document *p*: Measured value (Pa)

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Calibration and Measurement Capability (CMC)

Force

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Force Measurement Devices Load Cell Force Converter Dynamometer Crane Scale	0,45 kN ≤ *F* ≤ 200 kN	Tension and Compression with 00 Class Loadcell	0,08 %	F: Applied force (N) DAkkS-DKD-R 3-3 Procedure according to EN ISO 376 standards. A hydraulic force standard machine with a reference force transducer is used. • Calibration is done in the laboratory.
Seçiniz	1 N < *F* < 500 N ## A new scope entry line shall be added for each measurement range and not to enter multiple measurement range in the same cell. ##	Tensile/Compression with Dead Weight ##A new scope entry line shall be added for each measurement requirement and not to enter multiple measurement conditions in the same cell##	0,16 % ##A new scope entry line shall be added for each measurement uncertainty and not to be entered in multiple measurement uncertainty in the same cell.##	*F* : applied force (N) Prepared calibration procedure in accordance with DKD R 3-3 guidance document. ##Leave the location where calibration services provided and delete the others, if appropriate## • Customer premises • Laboratory • Mobile or temporary premises
Seçiniz	1 N < *F* < 500 N ## A new scope entry line shall be added for each measurement range and not to enter multiple measurement range in the same cell. ##	Tensile/Compression with Dead Weight ##A new scope entry line shall be added for each measurement requirement and not to enter multiple measurement conditions in the same cell##	0,16 % ##A new scope entry line shall be added for each measurement uncertainty and not to be entered in multiple measurement uncertainty in the same cell.##	*F* : applied force (N) Prepared calibration procedure in accordance with DKD R 3-3 guidance document. ##Leave the location where calibration services provided and delete the others, if appropriate## • Customer premises • Laboratory • Mobile or temporary premises
Force Measurement Devices Hand Scale	0,5 N ≤ *F* ≤ 500 N	Tensile/Compression with Dead Weight	0,1 %	F: Applied force (N) Calibration procedure prepared in accordance with DKD R 3-3 Guidance Document • Calibration is done in the laboratory.

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Seçiniz	1 N < *F* < 500 N ## A new scope entry line shall be added for each measurement range and not to enter multiple measurement range in the same cell. ##	Tensile/Compression with Dead Weight ##A new scope entry line shall be added for each measurement requirement and not to enter multiple measurement conditions in the same cell##	0,16 % ##A new scope entry line shall be added for each measurement uncertainty and not to be entered in multiple measurement uncertainty in the same cell.##	*F* : applied force (N) Prepared calibration procedure in accordance with DKD R 3-3 guidance document. ##Leave the location where calibration services provided and delete the others, if appropriate## • Customer premises • Laboratory • Mobile or temporary premises

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Calibration and Measurement Capability (CMC)

Electricity - DC and Low Frequency Quantities (LF)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	0 mV ≤ *U* < 200 mV	-	$9{,}0 \cdot 10^{-6} \cdot U + 0{,}5\ \mu V$	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	200 mV ≤ *U* < 2 V	-	$6{,}0 \cdot 10^{-6} \cdot U + 1{,}0\ \mu V$	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	2 V ≤ *U* ≤ 11 V	-	$4{,}0 \cdot 10^{-6} \cdot U + 5{,}0\ \mu V$	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	11 V < *U* ≤ 20 V	-	$4{,}0 \cdot 10^{-6} \cdot U + 0{,}6\ \mu V$	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	20 V < *U* ≤ 200 V	-	$7{,}0 \cdot 10^{-6} \cdot U + 40\ \mu V$	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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DC Voltage DC Voltage Meters Multimeter: DC Voltage DC Voltmeter	200 V < *U* ≤ 1000 V	-	$9{,}0 \cdot 10^{-6} \cdot U + 0{,}6$ mV	***U:*** Measured voltage, V Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	0 mV ≤ *U* < 199,99 mV	-	$6{,}9 \cdot 10^{-6} \cdot U + 0{,}10$ µV	***U:*** Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	199,99 mV ≤ *U* ≤ 1,9999 V	-	$3{,}7 \cdot 10^{-6} \cdot U + 0{,}39$ µV	***U:*** Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	1,9999 V < *U* ≤ 19,999 V	-	$4{,}0 \cdot 10^{-6} \cdot U + 0{,}35$ µV	***U:*** Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	19,999 V < *U* ≤ 199,99 V	-	$6{,}2 \cdot 10^{-6} \cdot U + 45$ µV	***U:*** Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Voltage DC Voltage Sources DC Voltage Source Calibrator: DC Voltage	199,99 V < *U* ≤ 1000 V	-	$6{,}5 \cdot 10^{-6} \cdot U + 0{,}1$ mV	***U:*** Measured voltage, V Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	20 µA ≤ *I* ≤ 220 µA	-	$51 \cdot 10^{-6} \cdot I + 7{,}0$ nA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	220 µA < *I* ≤ 2,2 mA	-	$42 \cdot 10^{-6} \cdot I + 8$ nA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	2,2 mA < *I* ≤ 22 mA	-	$44 \cdot 10^{-6} \cdot I + 4$ nA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	22 mA < *I* ≤ 220 mA	-	$55 \cdot 10^{-6} \cdot I + 0{,}11$ µA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	220 mA < *I* ≤ 2,2 A	-	$98 \cdot 10^{-6} \cdot I + 0{,}27$ µA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	1,1 A < *I* ≤ 11 A	-	$0{,}76 \cdot 10^{-3} \cdot I + 3{,}4$ mA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory calibration is made.

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DC Current **DC Current Meters** Multimeter: DC Current Ampermeter	11 A < *I* ≤ 20 A	-	$1,0 \cdot 10^{-3} \cdot I + 0,75$ mA	***I:*** Measured current, A Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (toroidal type)	10 A ≤ *I* ≤ 15 A	-	% 0,25	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (toroidal type)	15 A < *I* < 150 A	-	% 0,27	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (toroidal type)	150 A ≤ *I* < 500 A	-	% 0,23	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (toroidal type)	500 A ≤ *I* ≤ 1000 A	-	% 0,24	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	10 A ≤ *I* ≤ 15 A	-	% 0,56	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.

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DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	15 A < *I* < 150 A	-	% 1,1	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	150 A ≤ *I* < 500 A	-	% 0,65	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current **DC Current Meters** Multimeter: DC Current Pensampermeter Clampmeter (non-toroidal type)	500 A ≤ *I* ≤ 1000 A	-	% 0,48	***I:*** Measured current, A Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	20 µA ≤ *I* ≤ 200 µA	-	$16 \cdot 10^{-6} \cdot I + 0{,}4$ nA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	200 µA < *I* ≤ 2 mA	-	$18 \cdot 10^{-6} \cdot I + 0{,}12$ nA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	2 mA < *I* ≤ 20 mA	-	$17 \cdot 10^{-6} \cdot I + 1{,}7$ nA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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DC Current DC Current Sources DC Current Source Calibrator: DC Current	20 mA < *I* ≤ 200 mA	-	$52 \cdot 10^{-6} \cdot I + 0{,}21$ µA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	200 mA < *I* ≤ 2 A	-	$0{,}24 \cdot 10^{-3} \cdot I + 4$ mA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	2 A < *I* ≤ 20 A	-	$4{,}4 \cdot 10^{-4} \cdot I + 0{,}5$ mA	***I:*** Measured current, A Direct Comparison Method with Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC Current Sources DC Current Source Calibrator: DC Current	20 A ≤ *I* ≤ 30 A	-	3,6 mA/A	***I:*** Measured current, A Direct Comparison Method with Fluke 5320A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Current DC High Current Sources	10 A ≤ *I* ≤ 100 A	-	$1 \cdot 10^{-3} \cdot I + 10$ mA	***I:*** Measured current, A Using Fluke 8508A and Shunt Resistor • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 mV ≤ *U* ≤ 22 mV	10 Hz ≤ *f* ≤ 20 Hz	$0{,}26 \cdot 10^{-3} \cdot U + 4{,}0$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 mV ≤ *U* ≤ 22 mV	20 Hz < *f* ≤ 40 Hz	$0{,}11 \cdot 10^{-3} \cdot U + 4{,}0\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 mV ≤ *U* ≤ 22 mV	40 Hz < *f* ≤ 20 kHz	$0{,}10 \cdot 10^{-3} \cdot U + 4{,}0\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 mV ≤ *U* ≤ 22 mV	20 kHz < *f* ≤ 100 kHz	$0{,}51 \cdot 10^{-3} \cdot U + 5{,}0\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	10 Hz ≤ *f* ≤ 20 Hz	$0{,}29 \cdot 10^{-3} \cdot U + 12\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	20 Hz < *f* ≤ 40 Hz	$0{,}11 \cdot 10^{-3} \cdot U + 6{,}8\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	40 Hz < *f* ≤ 20 kHz	$0{,}10 \cdot 10^{-3} \cdot U + 6{,}9\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	20 kHz < *f* ≤ 50 kHz	0,21 · 10^{-3} · *U* + 7,0 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	50 kHz < *f* ≤ 100 kHz	0,47 · 10^{-3} · *U* + 17 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	100 kHz < *f* ≤ 300 kHz	0,92 · 10^{-3}· *U* + 20 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	300 kHz < *f* ≤ 500 kHz	1,5 · 10^{-3} · *U* + 25 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 mV < *U* ≤ 220 mV	500 kHz < *f* ≤ 1 MHz	2,8 · 10^{-3} · *U* + 45 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	10 Hz ≤ *f* ≤ 20 Hz	0,25 · 10^{-3} · U + 40 µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	20 Hz < *f* ≤ 40 Hz	$0,1 \cdot 10^{-3} \cdot U + 15$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	40 Hz < *f* ≤ 20 kHz	$49 \cdot 10^{-6} \cdot U + 8$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	20 kHz < *f* ≤ 50 kHz	$77 \cdot 10^{-6} \cdot U + 10$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	50 kHz < *f* ≤ 100 kHz	$0,12 \cdot 10^{-3} \cdot U + 30$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	100 kHz < *f* ≤ 300 kHz	$0,39 \cdot 10^{-3} \cdot U + 80$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	300 kHz < *f* ≤ 500 kHz	$0,96 \cdot 10^{-3} \cdot U + 0,2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 mV < *U* ≤ 2,2 V	500 kHz < *f* ≤ 1 MHz	$1,7 \cdot 10^{-3} \cdot U + 0,3$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	10 Hz ≤ *f* ≤ 20 Hz	$0,25 \cdot 10^{-3} \cdot U + 0,4$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	20 Hz < *f* ≤ 40 Hz	$0,1 \cdot 10^{-3} \cdot U + 0,15$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	40 Hz < *f* ≤ 20 kHz	$51 \cdot 10^{-6} \cdot U + 47$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	20 kHz < *f* ≤ 50 kHz	$79 \cdot 10^{-6} \cdot U + 98$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	50 kHz < *f* ≤ 100 kHz	$0,11 \cdot 10^{-3} \cdot U + 0,2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	100 kHz < *f* ≤ 300 kHz	$0,29 \cdot 10^{-3} \cdot U + 0,59$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	300 kHz < *f* ≤ 500 kHz	$1,1 \cdot 10^{-3} \cdot U + 2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	2,2 V < *U* ≤ 22 V	500 kHz < *f* ≤ 1 MHz	$1,6 \cdot 10^{-3} \cdot U + 3,2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 V < *U* ≤ 220 V	10 Hz ≤ *f* ≤ 20 Hz	$0,25 \cdot 10^{-3} \cdot U + 4$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 V < *U* ≤ 220 V	20 Hz < *f* ≤ 40 Hz	$0,1 \cdot 10^{-3} \cdot U + 2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 V < *U* ≤ 220 V	40 Hz < f ≤ 20 kHz	$57 \cdot 10^{-6} \cdot U + 0,58$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 V < *U* ≤ 220 V	20 kHz < *f* ≤ 50 kHz	$86 \cdot 10^{-6} \cdot U + 1$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	22 V < *U* ≤ 220 V	50 kHz < *f* ≤ 100 kHz	$0{,}16 \cdot 10^{-3} \cdot U + 2{,}5$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 V < *U* ≤ 1000 V	40 Hz ≤ *f* < 1 kHz	$0{,}11 \cdot 10^{-3} \cdot U + 3{,}5$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 V < *U* ≤ 1000 V	1 kHz < *f* < 20 kHz	$0{,}18 \cdot 10^{-3} \cdot U + 5{,}7$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A-5725A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Meters Multimeter: AC Voltage AC Voltmeter	220 V < *U* ≤ 1000 V	20 kHz < *f* ≤ 30 kHz	$0{,}67 \cdot 10^{-3} \cdot U + 11$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method with FLUKE 5720A-5725A Calibrator • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	10 Hz ≤ *f* ≤ 40 Hz	$0{,}12 \cdot 10^{-3} \cdot U + 4$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	40 Hz < *f* ≤ 100 Hz	$0{,}12 \cdot 10^{-3} \cdot U + 4\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	100 Hz < *f* ≤ 2 kHz	$0{,}12 \cdot 10^{-3} \cdot U + 2\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	2 kHz < *f* ≤ 10 kHz	$0{,}12 \cdot 10^{-3} \cdot U + 4\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	10 kHz < *f* ≤ 30 kHz	$0{,}31 \cdot 10^{-3} \cdot U + 8\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 mV ≤ *U* ≤ 200 mV	30 kHz < *f* ≤ 100 kHz	$0{,}70 \cdot 10^{-3} \cdot U + 20\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	10 Hz ≤ *f* ≤ 40 Hz	$0{,}11 \cdot 10^{-3} \cdot U + 20\ \mu V$	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	40 Hz < *f* ≤ 100 Hz	$86 \cdot 10^{-6} \cdot U + 20$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	100 Hz < *f* ≤ 2 kHz	$67 \cdot 10^{-6} \cdot U + 20$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	2 kHz < *f* ≤ 10 kHz	$86 \cdot 10^{-6} \cdot U + 20$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	10 kHz < *f* ≤ 30 kHz	$0{,}21 \cdot 10^{-3} \cdot U + 40$ µV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	30 kHz < *f* ≤ 100 kHz	$0{,}51 \cdot 10^{-3} \cdot U + 0{,}20$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	100 kHz < *f* ≤ 300 kHz	$3{,}0 \cdot 10^{-3} \cdot U + 2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 mV < *U* ≤ 2 V	300 kHz < *f* ≤ 1 MHz	$10 \cdot 10^{-3} \cdot U + 20$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	10 Hz ≤ *f* ≤ 40 Hz	$0{,}11 \cdot 10^{-3} \cdot U + 0{,}2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	40 Hz < *f* ≤ 100 Hz	$86 \cdot 10^{-6} \cdot U + 0{,}2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	100 Hz < *f* ≤ 2 kHz	$67 \cdot 10^{-6} \cdot U + 0{,}2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	2 kHz < *f* ≤ 10 kHz	$86 \cdot 10^{-6} \cdot U + 0{,}2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	10 kHz < *f* ≤ 30 kHz	$0{,}2 \cdot 10^{-3} \cdot U + 0{,}4$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	30 kHz < *f* ≤ 100 kHz	$0,5 \cdot 10^{-3} \cdot U + 2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	100 kHz < *f* ≤ 300 kHz	$3,0 \cdot 10^{-3} \cdot U + 20$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	2 V < *U* ≤ 20 V	300 kHz < *f* ≤ 1 MHz	$10 \cdot 10^{-3} \cdot U + 0,2$ V	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	10 Hz ≤ *f* ≤ 40 Hz	$0,11 \cdot 10^{-3} \cdot U + 2$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	40 Hz < *f* ≤ 100 Hz	$92 \cdot 10^{-6} \cdot U + 1,9$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	100 Hz < *f* ≤ 2 kHz	$75 \cdot 10^{-6} \cdot U + 1,9$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	2 kHz < *f* ≤ 10 kHz	$92 \cdot 10^{-6} \cdot U + 1{,}9$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	10 kHz < *f* ≤ 30 kHz	$0{,}20 \cdot 10^{-3} \cdot U + 4$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	20 V < *U* ≤ 200 V	30 kHz < *f* ≤ 100 kHz	$0{,}50 \cdot 10^{-3} \cdot U + 20$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 V < *U* ≤ 1000 V	40 Hz < *f* ≤ 10 kHz	$97 \cdot 10^{-6} \cdot U + 19$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 V < *U* ≤ 1000 V	10 kHz < *f* ≤ 30 kHz	$0{,}21 \cdot 10^{-3} \cdot U + 40$ mV	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Voltage AC Voltage Sources AC Voltage Source Calibrator: AC Voltage	200 V < *U* ≤ 1000 V	30 kHz < *f* ≤ 100 kHz	$0{,}51 \cdot 10^{-3} \cdot U + 0{,}20$ V	*U:* Measured voltage, V *f:* Frequency, Hz Direct Comparison Method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	100 µA ≤ *I* ≤ 220 µA	10 Hz ≤ *f* ≤ 20 Hz	0,82 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	100 µA ≤ *I* ≤ 220 µA	20 Hz < *f* ≤ 40 Hz	0,72 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	100 µA ≤ *I* ≤ 220 µA	40 Hz < *f* ≤ 1 kHz	0,31 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	100 µA ≤ *I* ≤ 220 µA	1 kHz < *f* ≤ 5 kHz	0,56 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	100 µA ≤ *I* ≤ 220 µA	5 kHz < *f* ≤ 10 kHz	2,2 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 µA < *I* ≤ 2,2 mA	10 Hz ≤ *f* ≤ 20 Hz	0,42 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 µA < *I* ≤ 2,2 mA	20 Hz < *f* ≤ 40 Hz	0,30 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 µA < *I* ≤ 2,2 mA	40 Hz < *f* ≤ 1 kHz	0,22 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 µA < *I* ≤ 2,2 mA	1 kHz < *f* ≤ 5 kHz	0,46 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 µA < *I* ≤ 2,2 mA	5 kHz < *f* ≤ 10 kHz	1,8 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 mA < *I* ≤ 22 mA	10 Hz ≤ *f* ≤ 20 Hz	0,32 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 mA < *I* ≤ 22 mA	20 Hz < *f* ≤ 40 Hz	0,22 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 mA < *I* ≤ 22 mA	40 Hz < *f* ≤ 1 kHz	0,16 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 mA < *I* ≤ 22 mA	1 kHz < *f* ≤ 5 kHz	0,30 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 mA < *I* ≤ 22 mA	5 kHz < *f* ≤ 10 kHz	1,7 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	22 mA < *I* ≤ 220 mA	10 Hz - 20 Hz	0,53 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	22 mA < *I* ≤ 220 mA	20 Hz < *f* ≤ 40 Hz	0,19 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	22 mA < *I* ≤ 220 mA	40 Hz < *f* ≤ 1 kHz	0,23 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	22 mA < *I* ≤ 220 mA	1 kHz < *f* ≤ 5 kHz	0,36 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	22 mA < *I* ≤ 220 mA	5 kHz < *f* ≤ 10 kHz	1,6 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 mA < *I* ≤ 2,2 A	20 Hz ≤ *f* ≤ 1 kHz	0,34 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 mA < *I* ≤ 2,2 A	1 kHz < *f* ≤ 5 kHz	0,55 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	220 mA < *I* ≤ 2,2 A	5 kHz < *f* ≤ 10 kHz	8,1 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 A < *I* ≤ 11 A	40 Hz ≤ *f* ≤ 1 kHz	2,3 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A-5725A Calibrator • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 A < *I* ≤ 11 A	1 kHz < *f* ≤ 5 kHz	2,5 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A-5725A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	2,2 A < *I* ≤ 11 A	5 kHz < *f* ≤ 10 kHz	4,5 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5720A-5725A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	11 A ≤ *I* ≤ 20 A	45 Hz ≤ *f* ≤ 1 kHz	6,3 mA/A	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Multimeter: AC Current AC Amperemeter	11 A ≤ *I* ≤ 20 A	1 kHz ≤ *f* ≤ 5 kHz	% 3,1	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter (toroidal type)	10 A ≤ *I* ≤ 15 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,28	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	10 A ≤ *I* ≤ 15 A	65 Hz < *f* ≤ 440 Hz	% 0,65	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	15 A < *I* < 150 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,35	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	15 A < *I* < 150 A	65 Hz < *f* ≤ 440 Hz	% 0,76	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	150 A ≤ *I* < 500 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,28	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	150 A ≤ *I* < 500 A	65 Hz < *f* ≤ 440 Hz	% 0,67	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(toroidal type)	500 A ≤ *I* ≤ 1000 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,27	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Pensampermeter Clampmeter (toroidal type)	500 A ≤ *I* ≤ 1000 A	65 Hz < *f* ≤ 440 Hz	% 0,64	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	10 A ≤ *I* ≤ 15 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,68	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	10 A ≤ *I* ≤ 15 A	65 Hz < *f* ≤ 440 Hz	% 1,0	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	15 A < *I* < 150 A	45 Hz ≤ *f* ≤ 65 Hz	% 1,8	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	15 A < *I* < 150 A	65 Hz < *f* ≤ 440 Hz	% 2,1	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.

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AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	150 A ≤ *I* < 500 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,90	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	150 A ≤ *I* < 500 A	65 Hz < *f* ≤ 440 Hz	% 1,3	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	500 A ≤ *I* ≤ 1000 A	45 Hz ≤ *f* ≤ 65 Hz	% 0,59	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Meter Pensampermeter Clampmeter(non-toroidal type)	500 A ≤ *I* ≤ 1000 A	65 Hz < *f* ≤ 440 Hz	% 0,92	***I:*** Measured current, A ***f:*** Frequency, Hz Direct Comparison Method with Fluke calibrator and Fluke5500A/Coil • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	100 µA ≤ *I* ≤ 200 µA	10 Hz ≤ *f* ≤ 10 kHz	$0,29 \cdot 10^{-3} \cdot I + 19$ nA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	100 µA ≤ *I* ≤ 200 µA	10 kHz < *f* ≤ 30 kHz	$0,72 \cdot 10^{-3} \cdot I + 18$ nA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Current AC Current Sources AC Current Source Calibrator: AC Current	200 µA < *I* ≤ 2 mA	10 Hz ≤ *f* ≤ 10 kHz	$0{,}26 \cdot 10^{-3} \cdot I + 0{,}2$ µA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	200 µA < *I* ≤ 2 mA	10 kHz < *f* ≤ 30 kHz	$0{,}61 \cdot 10^{-3} \cdot I + 0{,}2$ µA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	2 mA ≤ *I* < 20 mA	10 Hz ≤ *f* ≤ 10 kHz	$0{,}26 \cdot 10^{-3} \cdot I + 2$ µA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	2 mA < *I* ≤ 20 mA	10 kHz < *f* ≤ 30 kHz	$0{,}61 \cdot 10^{-3} \cdot I + 2$ µA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	20 mA < *I* ≤ 200 mA	10 Hz ≤ f ≤ 10 kHz	$0{,}26 \cdot 10^{-3} \cdot I + 20$ µA	***I:*** Current, A ***f:*** Frequency, *Hz* *Direct Comparison method to Fluke 8508A Reference Multimeter* • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	20 mA < *I* ≤ 200 mA	10 kHz < *f* ≤ 30 kHz	$0{,}61 \cdot 10^{-3} \cdot$ I + 20 µA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	200 mA < *I* ≤ 2 A	10 Hz ≤ *f* ≤ 2 kHz	$0{,}60 \cdot 10^{-3} \cdot I + 0{,}2$ mA	***I:*** Current, A ***f:*** Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.

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AC Current AC Current Sources AC Current Source Calibrator: AC Current	200 mA < *I* ≤ 2 A	2 kHz < *f* ≤ 10 kHz	$0{,}73 \cdot 10^{-3} \cdot I + 0{,}2$ mA	***I***: Current, A ***f***: Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	2 A < *I* ≤ 20 A	10 Hz ≤ *f* ≤ 2 kHz	$0{,}81 \cdot 10^{-3} \cdot I + 2$ mA	***I***: Current, A ***f***: Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
AC Current AC Current Sources AC Current Source Calibrator: AC Current	2 A < *I* ≤ 20 A	2 kHz < *f* ≤ 10 kHz	$2{,}5 \cdot 10^{-3} \cdot I + 2$ mA	***I***: Current, A ***f***: Frequency, *Hz* Direct Comparison method to Fluke 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 mΩ	(23 ± 2) C	0,41 mΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 mΩ	(23 ± 2) C	0,11 mΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	100 mΩ	(23 ± 2) C	44 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.

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DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 Ω	(23 ± 2) C	32 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 Ω	(23 ± 2) C	37 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	100 Ω	(23 ± 2) C	14 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	1 kΩ	(23 ± 2) C	13 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter milliohmmeter	10 kΩ	(23 ± 2) C	14 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	100 kΩ	(23 ± 2) C	11 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.

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DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	1 MΩ	(23 ± 2) C	17 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	10 MΩ	(23 ± 2) C	34 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Microohmmeter Ohmmeter Milliohmmeter	1 GΩ	(23 ± 2) C	0,61 mΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with 4-pin Reference Resistors • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 Ω	4 Wire (2-Wire for 100 MΩ)	96 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 Ω	4 Wires (2-Wire for 100 MΩ)	98 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 Ω	4 Wires (2-Wire for 100 MΩ)	25 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 Ω	4 Wires (2-Wire for 100 MΩ)	26 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.

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DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 Ω	4 Wires (2-Wire for 100 MΩ)	12 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	190 Ω	4 Wires (2-Wire for 100 MΩ)	13 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 kΩ	4 Wires (2-Wire for 100 MΩ)	10 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 kΩ	4 Wires (2-Wire for 100 MΩ)	12 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 kΩ	4 Wires (2-Wire for 100 MΩ)	10 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 kΩ	4 Wires (2-Wire for 100 MΩ)	12 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 kΩ	4 Wires (2-Wire for 100 MΩ)	13 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.

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DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	190 kΩ	4 Wires (2-Wire for 100 MΩ)	14 µΩ/Ω	***R***: Measured Resistance,Ω Direct Comparison Method with FLUKE 5720A • In customer place • In the laboratory calibration is made.
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1 MΩ	4 Wires (2-Wire for 100 MΩ)	21 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,9 MΩ	4 Wires (2-Wire for 100 MΩ)	27 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	10 MΩ	4 Wires (2-Wire for 100 MΩ)	41 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	19 MΩ	4 Wires (2-Wire for 100 MΩ)	55 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	100 MΩ	4 Wires (2-Wire for 100 MΩ)	0,11 mΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5720A Calibrator • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	0 Ω ≤ *R* < 11 Ω		$31 \cdot 10^{-6} \cdot R + 7{,}8$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	11 Ω ≤ *R* < 33 Ω		$23 \cdot 10^{-6} \cdot R + 12$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	33 Ω ≤ *R* ≤ 110 Ω		$22 \cdot 10^{-6} \cdot R + 12$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	110 Ω < *R* ≤ 330 Ω		$22 \cdot 10^{-6} \cdot R + 16$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	330 Ω < *R* ≤ 1,1 kΩ		$21 \cdot 10^{-6} \cdot R + 18$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,1 kΩ < *R* ≤ 3,3 kΩ		$21 \cdot 10^{-6} \cdot R + 24$ mΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	3,3 kΩ < *R* ≤ 11 kΩ		$21 \cdot 10^{-6}$. *R* + 0,11 Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	11 kΩ < *R* ≤ 33 kΩ		$22 \cdot 10^{-6}$. *R* + 0,81 Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	33 kΩ < *R* ≤ 110 kΩ		$21 \cdot 10^{-6}$. *R* + 1,1 Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	110 kΩ < *R* ≤ 330 kΩ		$24 \cdot 10^{-6}$. *R* + 8,9 Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	330 kΩ < *R* ≤ 1,1 MΩ		$12 \cdot 10^{-6}$. *R* + 49 Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,1 MΩ < *R* ≤ 3,3 MΩ		$29 \cdot 10^{-6}$. *R* + 0,3 kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	3,3 MΩ < *R* ≤ 11 MΩ		$67 \cdot 10^{-6}$. *R* + 0,92 kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	11 MΩ < *R* ≤ 33 MΩ		$74 \cdot 10^{-6}$. *R* + 15 kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	33 MΩ < *R* ≤ 110 MΩ		$0,14 \cdot 10^{-3}$. *R* + 77 kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	110 MΩ < *R* ≤ 330 MΩ		$2,3 \cdot 10^{-3}$. *R* + 43 kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	330 MΩ ≤ *R* ≤ 1100 MΩ		$12 \cdot 10^{-3}$ *R* + 0,45 MΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5522A Calibrator • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Multimeter Resistor Ohmmeter	1,1 GΩ ≤ R ≤ 2 GΩ		11 mΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 5320A Calibrator • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Insulation Tester	1 GΩ ≤ *R* ≤ 10 GΩ	250 V	$8 \cdot 10^{-4} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	1 GΩ ≤ *R* ≤ 10 GΩ	500 V	$1{,}1 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	1 GΩ ≤ *R* ≤ 10 GΩ	1000 V	$1{,}7 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	1 GΩ ≤ *R* ≤ 10 GΩ	2500 V	$3{,}9 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	1 GΩ ≤ *R* ≤ 10 GΩ	5000 V	$7{,}6 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	10 GΩ < *R* ≤ 100 GΩ	250 V	$3{,}9 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Insulation Tester	10 GΩ < *R* ≤ 100 GΩ	500 V	$4{,}5 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	10 GΩ < *R* ≤ 100 GΩ	1000 V	$6{,}3 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	10 GΩ < *R* ≤ 100 GΩ	2500 V	$1{,}4 \cdot 10^{-2} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	10 GΩ < *R* ≤ 100 GΩ	5000 V	$2{,}6 \cdot 10^{-2} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	100 GΩ < *R* ≤ 1 TΩ	250 V	$4{,}1 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	100 GΩ < *R* ≤ 1 TΩ	500 V	$4{,}7 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Meters Insulation Tester	100 GΩ < *R* ≤ 1 TΩ	1000 V	$6{,}4 \cdot 10^{-3} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	100 GΩ < *R* ≤ 1 TΩ	2500 V	$1{,}4 \cdot 10^{-2} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Meters Insulation Tester	100 GΩ < *R* ≤ 1 TΩ	5000 V	$2{,}6 \cdot 10^{-2} \cdot R$	***R:*** Measured Resistance, Ω Direct Comparison Method with Decade Resistance • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	1 mΩ ≤ *R* ≤ 2 Ω	4-wire	$11 \cdot 10^{-6} \cdot R + 4\ \mu\Omega$	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	2 Ω < *R* ≤ 20 Ω	4-wire	$7{,}7 \cdot 10^{-6} \cdot R + 26\ \mu\Omega$	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	20 Ω < *R* ≤ 200 Ω	4-wire	10 μΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	200 Ω < *R* ≤ 2 kΩ	4-wire	10 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	2 kΩ < *R* ≤ 20 kΩ	4-wire	10 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	20 kΩ < *R* ≤ 200 kΩ	4-wire	11 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	200 kΩ < *R* ≤ 2 MΩ	4-wire or 2-wire	14 µΩ/Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	2 MΩ < *R* ≤ 20 MΩ	4-wire or 2-wire	$16 \cdot 10^{-6} \cdot R + 91$ Ω	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*
DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	20 MΩ < *R* ≤ 200 MΩ	4-wire or 2-wire	$51 \cdot 10^{-6} \cdot R + 9{,}7$ kΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory *calibration is made.*

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DC Resistor DC Resistance Standards and Resources DC Resistance Standard Resistance Box Calibrator: Resistor DC Resistance Source	200 MΩ < R ≤ 2 GΩ	4-wire or 2 -wire	0,52 · 10^{-3} . R + 1 MΩ	***R:*** Measured Resistance, Ω Direct Comparison Method with FLUKE 8508A Reference Multimeter • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	220 pF ≤ C < 400 pF	10 Hz ≤ f ≤ 10 kHz	3,7 · 10^{-3} · C + 9 pF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	0,4 nF ≤ C < 1,1 nF	10 Hz ≤ f ≤ 10 kHz	3,6 · 10^{-3} · C + 10 pF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	1,1 nF ≤ C < 3,3 nF	10 Hz ≤ f ≤ 3 kHz	3,9 · 10^{-3} · C + 10 pF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	3,3 nF ≤ C < 11 nF	10 Hz ≤ f ≤ 1 kHz	1,6 · 10^{-3} · C + 17 pF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	11 nF ≤ C < 33 nF	10 Hz ≤ f ≤ 1 kHz	1,9 · 10^{-3} · C + 92 pF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*

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Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	33 nF ≤ *C* < 110 nF	10 Hz ≤ *f* ≤ 1 kHz	$1,5 \cdot 10^{-3} \cdot C + 0,21$ nF	***C*** : Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	110nF ≤ *C* < 330 nF	10 Hz ≤ *f* ≤ 1 kHz	$1,5 \cdot 10^{-3} \cdot C + 0,56$ nF	***C*** : Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capaticance	0,33 nF ≤ *C* < 1,1 µF	10 Hz ≤ *f* ≤ 600 Hz	$1,5 \cdot 10^{-3} \cdot C + 2$ nF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	1,1 µF ≤ *C* < 3,3 µF	10 Hz ≤ *f* ≤ 300 Hz	$1,5 \cdot 10^{-3} \cdot C + 5,6$ nF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	3,3 µF ≤ *C* < 11 µF	10 Hz ≤ *f* ≤ 150 Hz	$1,3 \cdot 10^{-3} \cdot C + 26$ nF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	11 µF ≤ *C* < 33 µF	10 Hz ≤ *f* ≤ 120 Hz	$2,3 \cdot 10^{-3} \cdot C + 76$ nF	***C*** : Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

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Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	33 µF ≤ *C* < 110 µF	10 Hz ≤ *f* ≤ 80 Hz	$2{,}6 \cdot 10^{-3} \cdot C + 0{,}29$ µF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	110 µF ≤ *C* < 330 µF	0 Hz ≤ *f* ≤ 50 Hz	$3{,}1 \cdot 10^{-3} \cdot C + 0{,}49$ µF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	0,33 mF ≤ *C* < 1,1 mF	0 Hz ≤ *f* ≤ 20 Hz	$3{,}0 \cdot 10^{-3} \cdot C + 1{,}8$ µF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	1,1 mF ≤ *C* < 3,3 mF	0 Hz ≤ *f* ≤ 6 Hz	$2{,}8 \cdot 10^{-3} \cdot C + 6{,}7$ µF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimetre: Capacitance	3,3 mF ≤ *C* < 11 mF	0 Hz ≤ *f* ≤ 2 Hz	$3{,}0 \cdot 10^{-3} \cdot C + 18$ µF	***C*** : Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: capacitcance	11 mF ≤ *C* < 33 mF	0 Hz ≤ *f* ≤ 0,6 Hz	$4{,}4 \cdot 10^{-3} \cdot C + 0{,}11$ mF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

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Capacitance Capacitance Meters LCR Meter: Capacitance Multimeter: Capacitance	33 mF ≤ *C* ≤ 110 mF	0 Hz ≤ *f* ≤ 0,2 Hz	$7{,}5 \cdot 10^{-2} \cdot C + 0{,}28$ mF	***C :*** Measured Capacitance, F ***f:*** Frequency, Hz Direct Comparison Method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC High Voltage AC High Voltage Sources	1 kV ≤ *U* ≤ 10 kV	60 Hz	0,27 %	**U:** Measured Voltage, V With High Voltage Divider and Multimeter IEC 60060-1 IEC 60060-2 IEC 60060-3 • In customer place • In the laboratory calibration is made.
DC High Voltage DC High Voltage Sources	1 kV < *U* ≤ 15 kV		0,15 %	***U:*** Measured Voltage, V With High Voltage Divider and Multimeter IEC 60060-1 IEC 60060-2 IEC 60060-3 • In customer place • In the laboratory calibration is made.
DC Power and Energy Power Meter Wattmeter	0,011 W < P ≤ 33 W	3,3 V ≤ *U* ≤ 1000 V 3,3 mA ≤ *I* ≤ 33 mA	$1{,}5 \cdot 10^{-4} \cdot P + 4{,}7$ µW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A Direct measurement method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
DC Power and Energy Power Meter Wattmeter	0,11 W < P ≤ 330 W	3,3 V ≤ *U* ≤ 1000 V 33 mA ≤ *I* ≤ 330 mA	$1{,}4 \cdot 10^{-4} \cdot P + 49$ µW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A Direct measurement method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*

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DC Power and Energy Power Meter Wattmeter	1,1 W < P ≤ 3000 W	3,3 V ≤ *U* ≤ 1000 V 330 mA ≤ *I* ≤ 3 A	$4{,}7 \cdot 10^{-4} \cdot P + 0{,}12$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A Direct measurement method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
DC Power and Energy Power Meter Wattmeter	9,9 W < P ≤ 11 kW	3,3 V ≤ *U* ≤ 1000 V 3 A ≤ *I* ≤ 11 A	$1{,}4 \cdot 10^{-3} \cdot P - 5{,}8$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
DC Power and Energy Power Meter Wattmeter	33 W < P ≤ 20 kW	3,3 V ≤ *U* ≤ 1000 V 11 A ≤ *I* ≤ 20 A	$1{,}2 \cdot 10^{-3} \cdot P + 4{,}7$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A Direct measurement method with FLUKE 5522A • In customer place • In the laboratory *calibration is made.*
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	0,011 W < *P* ≤ 33 W	3,3 V ≤ *U* ≤ 1000 V 3,3 mA ≤ *I* ≤ 33 mA 0 ≤ *f* ≤ 55 Hz PF: 1	$1{,}8 \cdot 10^{-3} \cdot P + 0{,}18$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

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AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	0,011 W < P ≤ 33 W	3,3 V ≤ U ≤ 1000 V 3,3 mA ≤ I ≤ 33 mA 55 Hz ≤ f ≤ 1 kHz PF:1	$1{,}8 \cdot 10^{-3} \cdot P + 0{,}18$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	0,11 W < P ≤ 330 W	3,3 V ≤ U ≤ 1000 V 33 mA ≤ I ≤ 330 mA 0 ≤ f ≤ 55 Hz PF: 1	$1{,}3 \cdot 10^{-3} \cdot P + 1{,}3$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	0,11 W < P ≤ 330 W	3,3 V ≤ U ≤ 1000 V 33 mA ≤ I ≤ 330 mA 55 Hz ≤ f ≤ 1 kHz PF: 1	$1{,}3 \cdot 10^{-3} \cdot P + 1{,}3$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	1,1 W < P ≤ 3000 W	3,3 V ≤ U ≤ 1000 V 330 mA ≤ I ≤ 3 A 0 ≤ f ≤ 55 Hz PF: 1	$7{,}4 \cdot 10^{-3} \cdot P + 65$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

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AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	1,1 W < P ≤ 3000 W	3,3 V ≤ U ≤ 1000 V 330 mA ≤ I ≤ 3 A 55 Hz ≤ f ≤ 1 kHz PF: 1	$7{,}4 \cdot 10^{-3} \cdot P + 65$ mW	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	9,5 W < P ≤ 11000 W	3,3 V ≤ U ≤ 1000 V 3 A ≤ I ≤ 11 A 0 Hz ≤ f ≤ 55 Hz PF: 1	$1{,}6 \cdot 10^{-2} \cdot P + 0{,}42$ W	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	9,5 W < P ≤ 11000 W	3,3 V ≤ U ≤ 1000 V 3 A ≤ I ≤ 11 A 55 Hz ≤ f ≤ 1 kHz PF: 1	$1{,}6 \cdot 10^{-2} \cdot P + 0{,}42$ W	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	36,3 W < P ≤ 20 kW	3,3 V ≤ U ≤ 1000 V 11 A ≤ I ≤ 20 A 0 Hz ≤ f ≤ 55 Hz PF: 1	$8{,}6 \cdot 10^{-3} \cdot P + 0{,}26$ W	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.

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AC Power and Energy Active Power: Three Phase Power Meter Wattmeter	36,3 W < P ≤ 20 kW	3,3 V ≤ U ≤ 1000 V 11 A ≤ I ≤ 20 A 55 Hz ≤ f ≤ 1 kHz PF: 1	$8{,}6 \cdot 10^{-3} \cdot P + 0{,}26$ W	***P :*** Power, W ***U:*** Voltage, V ***I:*** Current, A ***f:*** Frequency, Hz ***PF:*** Power Factor Direct measurement method with FLUKE 5522A • In customer place • In the laboratory calibration is made.
Signal and Pulse Characteristics Vertical Deflection (Gain) Oscilloscope	1 mV ≤ U < 5 V	DC 50 Ω - 1 MΩ	$3{,}5 \cdot 10^{-3} \cdot U + 22$ µV	***U:*** Measured voltage, V Direct measurement method with FLUKE 9500B • In customer place • In the laboratory calibration is made.

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

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Calibration and Measurement Capability (CMC)

Magnetic Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
DC Magnetic Flux Density and Intensity Magnetic Field Intensity Meter	0 G ≤ H ≤ 100 G	Analogue Horizontal / Vertical	$1{,}4 \cdot 10^{-4} \cdot H + 0{,}6$ G	*H* : Measured Magnetic Field Comparison method with automatic Helmholtz calibration system
DC Magnetic Flux Density and Intensity Magnetic Field Intensity Meter	0 G ≤ H ≤ 100 G	Analoque Horizontal / Vertical	$7{,}8 \cdot 10^{-3} \cdot H + 0{,}002$ G	*H* : Measured Magnetic Field • Comparison method with automatic Helmholtz calibration system

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Calibration and Measurement Capability (CMC)

Mass (Mass Standards)

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Weight Standard F1 Standard Weights	1 g	-	0,03 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	2 g	-	0,04 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	5 g	-	0,05 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	10 g	-	0,06 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	20 g	-	0,08 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	50 g	-	0,1 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	100 g	-	0,16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	200 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	500 g	-	0,8 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	1 kg	-	1,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	2 kg	-	3,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

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Weight Standard F1 Standard Weights	5 kg	-	8,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F1 Standard Weights	10 kg	-	16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	1 g	-	0,10 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	2 g	-	0,12 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	5 g	-	0,16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	10 g	-	0,20 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	20 g	-	0,25 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	50 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	100 g	-	0,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	200 g	-	1,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	500 g	-	2,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	1 kg	-	5,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	2 kg	-	10 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

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Weight Standard F2 Standard Weights	5 kg	-	25 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard F2 Standard Weights	10 kg	-	50 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	1 g	-	0,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	2 g	-	0,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	5 g	-	0,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	10 g	-	0,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	20 g	-	0,8 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	50 g	-	1,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	100 g	-	1,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	200 g	-	3,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	500 g	-	8,0 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	1 kg	-	16 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	2 kg	-	30 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

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Weight Standard M1 Standard Weights	5 kg	-	80 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	10 kg	-	160 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	20 kg	-	300 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard M1 Standard Weights	50 kg	-	800 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*1 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*2 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*5 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*10 g*		3,3 g	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*20 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*50 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*100 g*		3,3 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*200 g*		3,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

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Weight Standard Non-Standard Weights	*500 g*		3,5 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*1 kg*		4,2 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*2 kg*		60,9 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*5 kg*		62 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*10 kg*		143,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*20 kg*		149,6 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.
Weight Standard Non-Standard Weights	*50 kg*		149,4 mg	Determination of conventional mass value with the calibration procedure prepared in accordance with the OIML R-111 document. • Calibration is done in the laboratory.

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Calibration and Measurement Capability (CMC)

Weighing Tools

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Non-automatic Weighing Devices Scales	1 mg < *m* < 10000 g	With Class E2 mass	$2{,}2 \cdot 10^{-6}$	*m* : Weight value (g) Calibration procedure prepared in accordance with the EURAMET/cg-18 document • Where the device is used
Non-automatic Weighing Devices Scales	1 g < *m* < 50 kg	With Class F1 mass	$6{,}9 \cdot 10^{-6}$	*m* : Weight value (g) Calibration procedure prepared in accordance with the EURAMET/cg-18 document • Where the device is used
Non-automatic Weighing Devices Scales	10 kg < *m* < 1000 kg	With Class M1 mass	$6{,}9 \cdot 10^{-5}$	*m* : Weight value (kg) Calibration procedure prepared in accordance with the EURAMET/cg-18 document • Where the device is used

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Calibration and Measurement Capability (CMC)

Material Testing Machines

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Material Testing Machines Tensile / Compression Testing Machine	0,45 kN < *F* < 200 kN	In the tensile and compression direction with a 0.5 class load cell	% 0,16	F: Applied force (N) Prepared calibration procedure in accordance with TS EN ISO 7500-1 • Customer premises • Mobile or temporary premises
Material Testing Machines Tensile / Compression Testing Machine	2 kN < *F* < 200 kN	In the tensile and compression direction with a 0.5 class load cell	% 0,16	F: Applied force (N) Prepared calibration procedure in accordance with TS EN ISO 7500-1 • Customer premises • Mobile or temporary premises

Accreditation Scope

Calibration
TS EN ISO/IEC 17025
AB-0092-K

TÜRK HAVA YOLLARI TEKNİK ANONİM ŞİRKETİ

Accreditation Nr: AB-0092-K
Revision Nr: 14 Date: 07.06.2024

Calibration and Measurement Capability (CMC)

Torque

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Torque Measurement Devices Torque Hand Tools	0,04 N · m < M < 1350 N · m	clockwise and counterclockwise	1.0 %	M : Measured Torque (N.m) Prepared calibration procedure in accordance with TS EN ISO 6789-2 document. • Customer premises • Laboratory • Mobile or temporary premises

This document has been signed by Gülden Banu Müderrisoğlu with a secure electronic signature in accordance with the electronic signature law numbered 5070. Use the QR code to verify the e-signed document.

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Calibration and Measurement Capability (CMC)

Optical Quantities

Measured Quantity / Calibrated Items	Range	Measurement Conditions	Expanded Measurement Uncertainty (k=2)	Remarks / Calibration Method
Optical Sensitivity Luxmeter	0 lx ≤ E_v ≤ 5000 lx	2856 K Comparison with reference	1,0 %	E_v: Measured lux Calibration procedure prepared basedt: ISO/CIE 19476 • Customer premises • Laboratory • Mobile or temporary premises
Luminance Responsivity Luminance meter	120 cd/m2 ≤ L_v ≤ 1214 cd/m2	2856 K colour temperature	2,7 %	L_v : Luminance Responsivity Calibration procedure in accordance with: ISO/CIE 19476 • Customer premises • Laboratory • Mobile or temporary premises
Responsivity, UV, Broadband irradiance UVA Radiometer	0,015 W/m^2 ≤ E_e ≤ 100 W/m^2	UV-A range	5,3 %	E_e : Irradiance Responsivity Calibration procedure in accordance with: CIE 220 • Customer premises • Laboratory • Mobile or temporary premises