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GLOBEX INSTRUMENTATION INDUSTRIELLE

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CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Dimensional			
Calipers	Up to 150 mm 150 to 1000 mm	3 µm 19 µm	Blocks and ring gage by direct method NF E 11-091(08-2023) VDI/VDE/DGQ 2618 Blatt 9.1 / 9.2 BS 887
External Micrometers	Up to 50 mm 50 mm to 100 mm	3 µm 10 µm	Gage Blocks by direct method NF E 11-095(10-2024) VDI/VDE/DGQ 2618 Blatt 10.3 / 10.1 / 6 / 10.7 / 10.5 / 4.5 / 10.2
Micrometer Setting Rods	25 mm to 275 mm	3 µm	Gage Blocks and LVDT Probe by direct method NF E11-015 (12/2019) VDI/VDE/DGQ 2618 Blatt 4.4
Ring Gauge & Snap Gauge	Up to 25 mm Ø 25 mm to 75 mm Ø 75 mm to 200 mm Ø	3 µm 5.5 µm 12 µm	2D Optical Comparator by direct method NF E 11-011 (08/2020) VDI/VDE/DGQ 2618 Blatt 4.1 Blatt 4.7
Sieves Fine Coarse	 63 µm to 850 µm 1 mm to 200 mm	 23 µm 41 µm	2D Optical Machine & Digital Caliper by direct method NF ISO 3310-1 (07/2019) NF ISO 3310-2 (07/2019) NF ISO 3310-3 (09/1991) NF EN 933-3 (03/2012

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Depth Gages	Up to 500 mm	8 µm	Gage Blocks by direct method NF E 11-096(08/2023) NF E 11-097(02/1998) VDI/VDE/DGQ 2618 Blatt 9.2
Height Gauge (Digital / Analog)	Up to 300 mm Up to 600 mm Up to 1000 mm	7.3 µm 14 µm 22 µm	Gage Blocks by direct method NF EN ISO13225 (07/2012) VDI/VDE/DGQ 2618 Blatt 9.3 / 16.1
Measuring scale and measuring tape Rules Pi-Tapes	Up to 10 m	51 µm + ($6 \times 10^{-6} \times L$) (L - length in mm)	Measuring Tape Calibrator, and Tension Test Weights- Class 1 by direct method OIML R 35 VDI/VDE/DGQ/DKD 2618 Blatt 8.2
Glass Graticule (Linear)	Up to 200 mm	3.5 µm	2D Optical Comparator by direct method Procedure DI-PR-013
Glass Graticule (angular)	Up to 360°	0.5°	2D Optical Comparator by direct method Procedure DI-PR-013
Micrometer head	0.1 mm to 5 mm 5 mm to 50 mm	1 µm 2 µm	Master gage blocks by direct method VDI/VDE/DGQ 2618 Blatt 10.4
Laser scanning micrometers Eccentricity measuring device[5] Centering measuring device Diameter measuring device Node measuring device	Up to 50 mm	3 µm + ($4 \times 10^{-6} \times L$) (L - length in mm)	Cylindrical gauge rods by direct method Procedure DI-PR-052
Radius Gauge	1 mm ≤ R ≤ 100 mm, where R = Radius	11 µm	2D Optical Comparator by direct method Procedure DI-PR-020
Feeler Gauge	Up to 5 mm	4.3 µm	Digital Micrometer Direct Method
Plastic foil	Up to 2 mm	1.9 µm	Digital Micrometer by direct method Procedure DI-PR-021

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Square	50 mm to 200 mm	3 µm	2D Optical Machine by direct method VDI/VDE/DGQ/DKD 2618 Blatt 7.1
Thickness Gauge	0 mm to 5 mm 0 mm to 25 mm 0 mm to 50 mm	1.1 µm 1.8 µm 2.1 µm	Slip Gauge Set by direct method VDI/VDE/DGQ 2618 Blatt 12.1 DIN EN ISO 534 (02/2012)
Microscope / Optical Comparators / 2D machine / Profile Projector[5] Linear Angular	 Up to 300 mm Up to 360°	 3.5 µm 0.33°	Reference Glass Ruler Glass Graticule by direct method Procedure DI-PR-026
Coating Thickness Masters & Standard Foils	0.01 mm to 1 mm	2.5 µm	Digital Micrometer Direct Method Procedure DI-PR-025
Coating Thickness Gauge	0.025 mm to 0.75 mm	1.2 µm	Calibration foil set by direct method Procedure DI-PR-025
Ultrasonic Thickness Gauge	Up to 100 mm	5 µm	Gage Blocks by direct method Procedure DI-PR-025
Ultrasonic Test Block / Ultrasonic Ladder Test Block - Step Test Block	Up to 25 mm 25 mm to 300 mm	5 µm 67 µm	Direct method by using Micrometer and Caliper Procedure DI-PR-026
Laser Distance Meter	Up to 1 m Up to 200 m	1.9 mm 0.2 m	Using Gauge Block by Direct method and Using Laser Meter Comparison method
Survey equipment: Theodolite Total Station[5] Laser Scanner / Auto level / GNSS	 Horizontal angle: 0° to 360° Vertical angle: -75° to 75° Distance: 300 m to 3000 m	 0.25 ° 0.25 ° 0.25 m	Master total station by Comparison method DI-PR-028 DI-PR-029

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Coordinate Measuring Machine CMM – Contact type and Articulated arm[5]	Up to 500 mm	7.6 µm + (1.1×10^{-6} x L) (L - length in mm)	Using Gauge Blocks, Master Sphere and Long Slip Gauges by direct method NF EN ISO 10360-2 NF EN ISO 10360-3 NF EN ISO 10360-5 NF EN ISO 10360-9 NF EN ISO 10360-12 VDI/VDE 2617-9
Coordinate Measuring Machine CMM – Scanning method[5]	Up to 500 mm	(7.6 µm + (1.1×10^{-6} x L) (L - length in mm)	Using Gauge Blocks, Master Sphere and Long Slip Gauges by direct method NF EN ISO 10360-4 NF EN ISO 10360-12 NF EN ISO 10360-5 Using Gauge Blocks, Master Sphere and Long Slip Gauges
CMM - imaging probing systems and Optical Sensors[5]	Up to 500 mm	7.6 µm + (1.1×10^{-6} x L) (L - length in mm)	Using Gauge Blocks, Master Sphere and Long Slip Gauges by direct method NF EN ISO 10360-7 NF EN ISO 10360-8
CMM - laser trackers[5]	Up to 500 mm	7.6 µm + (1.1×10^{-6} x L) (L - length in mm)	Using Gauge Blocks, Master Sphere and Long Slip Gauges by direct method NF EN ISO 10360-10
Coordinate measuring systems: optical 3D[5]	Up to 500 mm	(7.6 µm + (1.1×10^{-6} x L) (L - length in mm)	Using Gauge Blocks, Master Sphere and Long Slip Gauges by direct method NF EN ISO 10360-13
Position indicator Displacement Measuring Systems / Extensometer Devices Used in Material Testing Machines[5]	Up to 1000 mm	18 µm + (8.6×10^{-6} x L) (L - length in mm)	Using Interferometer laser by direct method VDI/VDE/DGQ 2618 Blatt 17.1 BS EN ISO 9513:2012 ASTM E2309/E2309M-20 ASTM E83-16

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
	Mechanical		
Scales and Balances[5]	1 g to 500 g 500 g to 1 kg 1 kg to 2 kg 2 kg to 5 kg 5 kg to 10 kg 10 kg to 20 kg 20 kg to 1000 kg 1000 kg to 6000 kg	1.3 mg 0.03 mg 0.07 g 0.14 g 0.37 g 0.02 kg 0.05 kg 0.22 kg	Direct measurement by using E2, F1 and M1 class Test Weights Procedure ME-PR-001
Pressure Indicating Instruments both Analog & Digital Pressure Transmitters Pressure Gauge (Pneumatic)[5]	-1 bar to 2 bar 2 bar to 25 bar	0.004 bar 0.01 bar	By Comparaison Methods using reference Pressure Gauge and Test Pump Procedure PR-PR-001
Pressure Indicating Instruments both Analog & Digital Pressure Transmitters Pressure Gauge (Hydraulic)[5]	1 bar to 100 bar 100 bar to 600 bar	0.05 bar 0.08 bar	Comparison Method by using Reference Pressure Gauge and Test Pump Procedure PR-PR-001
	100 bar to 2800 bar	1.2 %	Indirect Method by using Fore Gauge as per formula $P = F/A$ where P is pressure, F is force, and A is the area. Procedure PR-PR-002
Safety Relief Valve (Pneumatic)[5]	0 bar to 40 bar 40 bar to 100 bar	0.08 bar 0.56 bar	Comparison Method by using Reference Pressure Gauge and Test Pump Procedure PR-PR-005
Torque Wrenches	0.4 N·m to 10 N·m 10 N·m to 1000 N·m	0.6 % 0.8 %	Torque Wrench Calibrator by Direct method NF EN ISO 5393 NF EN ISO 6789-2 VDI/VDE 2647
Mass	5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 1 g 2 g 5 g 10 g 20 g 50 g	0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.36 mg 0.44 mg	E2 Class Weights and Weighing Balance By comparison method – ABBA Method as per OIMLR111

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
	100 g 200 g	0.62 mg 1.1 mg	
Mass	500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0.03 g 0.03 g 0.29 g 0.35 g 0.35 g 0.53 g	F1 Class Weights and Weighing Balance By comparison method – ABBA Method as per OIMLR111
Force - Universal Testing Machine / Hydraulic cylinder/ Compression Testing Machine in compression mode only[5]	0 N to 500 N 500 N to 50 kN 50 kN to 500 kN	0.39 % 0.08 % 2 %	Load Cell & Digital Indicator by Direct method NF EN 12390-4 NF EN ISO 7500-1 NF EN 12390-3 NF EN 12390-6
Fuel Dispensation By Volume (at Site only– in a gasoline station)	20 L	0.17 L	Volumetric Standards for Petrol and Diesel by Direct Method using Tank Gauge Procedure GA-PR-001
Liquid Flow Meter Flowmeter (water) (At site only)	0.5 m³/h to 350 m³/h	0.16 %	Liquid Flow Meter by Comparison Method using Ultrasonic Flow Meter Procedure FL-PR-001
Micropipettes/ Graduated Pipettes / Single Mark Pipette Syringes/ Cylinders/ Beakers / Flasks / Pycnometers / Burettes	0.2 mL to 50 mL 50 mL to 200 mL 200 mL to 2000 mL 2000 mL to 10000 mL	1.5 μL 20 μL 0.49 mL 0.68 mL	Mass Comparators, Reference Thermometer by Gravimetric Method ISO 8655-6 ISO TR 20461 TS EN ISO 8655-2 TS EN ISO 8655-6 EURAMET / CG19 TS ISO 4787 TS EN ISO 835
Volumetric Calibration Vessel – Portal Frame type/ Biconal Volumetric Calibration Vessel	5 L 10 L 20 L	0.065 mL 0.08 mL 0.11 mL	Mass Comparators, Reference Thermometer by Direct Method Procedure JG-PR-001
		Thermal	
Digital Thermometer, Temp. Gauge, Thermocouple Probe, RTD Probe	-30 °C to 100 °C 100 °C to 650 °C	0.2 °C 0.93 °C	Digital Thermometer with Probe and Metrology Well by comparison method ASTM E77

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Temperature Controller with Indicator / Recorder with sensor Temperature Transmitter, Liquid in Glass Thermometer[5]			
Liquid Bath, Dry Block Calibrators Chillers Ovens Incubator Freezer Furnaces / Muffle Furnace Refrigerator Cold Storage Room[5]	-80 °C to 140 °C 140 °C to 300 °C 300 °C to 660 °C 660 °C to 1200 °C	0.02 °C 0.09 °C 0.16 °C 4.5 °C	Digital Thermometer with Probe/Thermocouple and Using Multichannel Data logger with sensors method (mapping/ Single sensor method) FD X 15-140 (2024) ASTM D7969 USP 1079 NF EN 60068 AMS-2750
Hot Plates[5]	0 °C to 500 °C	0.62 °C	Reference Surface Probe & Temperature Calibrator by Direct Method Procedure TH-PR-010
Autoclave[5] Temperature Pressure	 100 °C to 140 °C 15 psi to 70 psi	 0.15 °C 0.51 psi	Using single sensor wireless datalogger by direct method ISO 17665:2024 ISO 13060 + A1:2018 NF EN 285 + A1:2021
Thermo-Hygrometer, Palatine Humidity Meter (Capacitive Resistance, Mechanical, Digital)[5] @ 18 °C to 28 °C	15 %RH to 40 %RH 40 %RH to 60 %RH 60 %RH to 95 %RH	1 %RH 1.4. %RH 2 %RH	Portable Humidity Calibrator by Direct Measurement EURAMET CG-20, ASTM E104
Humidity Chamber Environmental Chamber Climatic Chamber[5]	15 %RH to 95 %RH at 25 °C	3 %RH	Using Humidity Meter & Digital Thermometer by direct method (Single sensor) Procedure HY-PR-001
Electrical – DC/LF			
DC Voltage – Generate[3,5]	10 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V	$4.0 \times 10^{-5} \times U + 16\ \mu V$ $6.0 \times 10^{-5} \times U + 16\ \mu V$ $6.2 \times 10^{-5} \times U + 74\ \mu V$ $6.8 \times 10^{-5} \times U + 0.85\ mV$ $6.9 \times 10^{-5} \times U + 3\ mV$ U - Volt Cal point	Direct Method Using Multi Product Calibrator Procedure EL.PR 01

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
	330 V to 1000 V		
AC Voltage – Generate[3,5]	(50 Hz) 10 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1000 V	$6.5 \times 10^{-4} \times U + 72\ \mu V$ $5.5 \times 10^{-4} \times U + 0.15\ mV$ $6.2 \times 10^{-4} \times U + 1.8\ mV$ $1.2 \times 10^{-3} \times U + 14\ mV$ $1.2 \times 10^{-3} \times U + 87\ mV$ U - Volt Cal point	Direct Method Using Multi Product Calibrator Procedure EL.PR 02
DC Current – Generate[3,5]	10 µA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 10 A	$1.7 \times 10^{-4} \times I + 68\ nA$ $2.2 \times 10^{-4} \times I + 1\ \mu A$ $4.7 \times 10^{-4} \times I + 50\ \mu A$ $4.7 \times 10^{-4} \times I + 0.10\ mA$ $1.2 \times 10^{-3} \times I + 2.0\ mA$ I - Current Cal point	Direct Method Using Multi Product Calibrator Procedure EL.PR 03
AC Current – Generate[3,5]	(50 Hz) 10 µA to 330 µA 330 µA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 2.2 A 2.2 A to 10 A	$1.6 \times 10^{-3} \times I + 0.76\ \mu A$ $2.1 \times 10^{-3} \times I + 0.80\ \mu A$ $2.0 \times 10^{-3} \times I + 5.5\ \mu A$ $2.9 \times 10^{-3} \times I + 0.12\ mA$ $4.5 \times 10^{-3} \times I + 0.15\ mA$ $2.1 \times 10^{-3} \times I + 8.5\ mA$ I - Current Cal point	Direct Method Using Multi Product Calibrator Procedure EL.PR 04
DC Resistance – Generate[3,5]	1 Ω to 330 Ω 330 Ω to 3.3 kΩ 3.3 kΩ to 33 kΩ 33 kΩ to 330 kΩ 330 kΩ to 3.3 MΩ 3.3 MΩ to 33 MΩ	$1.4 \times 10^{-4} \times R + 11\ m\Omega$ $6.0 \times 10^{-5} \times R + 0.5\ \Omega$ $1.2 \times 10^{-4} \times R + 0.85\ \Omega$ $1.6 \times 10^{-4} \times R + 7\ \Omega$ $1.9 \times 10^{-4} \times R + 0.45\ k\Omega$ $1.3 \times 10^{-3} \times R + 1.2\ k\Omega$ $7.0 \times 10^{-3} \times R + 24\ k\Omega$ R - Resistance Cal point	Direct Method Using Multi Product Calibrator Procedure EL.PR 05

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
	33 MΩ to 100 MΩ		
DC Current Clamp[5]	18 A to 100 A 100 A to 500 A	0.5 A 2 A	Direct Method Using Multi Product Calibrator and Current Coil Procedure EL.PR 06
AC Current Clamp[5]	(50 Hz) 18 A to 100 A 100 A to 500 A	 0.8 A 3 A	Direct Method Using Multi Product Calibrator and Current Coil Procedure EL.PR 07
DC Voltage – Measure[4,5]	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	$1.2 \times 10^{-5} \times U + 2.0\ \mu V$ $1.4 \times 10^{-5} \times U + 5.0\ \mu V$ $1.5 \times 10^{-5} \times U + 7.0\ \mu V$ $1.4 \times 10^{-5} \times U + 0.10\ mV$ $1.4 \times 10^{-5} \times U + 1.00\ mV$ U - Volt Cal point	Direct Method Using Digital Multimeter Procedure EL.PR 08
AC Voltage – Measure[4,5]	(50 Hz) 1 mV to 10 mV 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 700 V	 $2.4 \times 10^{-4} \times U + 17\ \mu V$ $2.3 \times 10^{-4} \times U + 17\ \mu V$ $1.2 \times 10^{-4} \times U + 0.03\ mV$ $2.3 \times 10^{-4} \times U + 0.3\ mV$ $4.2 \times 10^{-4} \times U + 3.0\ mV$ $3.5 \times 10^{-4} \times U + 6.0\ mV$ U - Volt Cal point	Direct Method Using Digital Multimeter Procedure EL.PR 09
DC Current – Measure[4,5]	10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A	$3.3 \times 10^{-5} \times I + 10\ nA$ $3.6 \times 10^{-5} \times I + 20\ nA$ $3.6 \times 10^{-5} \times I + 0.2\ \mu A$ $4.8 \times 10^{-4} \times I + 2.0\ \mu A$ $8.5 \times 10^{-4} \times I + 4.0\ \mu A$ I - Current Cal point	Direct Method Using Digital Multimeter Procedure EL.PR 10
AC Current – Measure[4,5]	(50 Hz) 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA	 $7.1 \times 10^{-4} \times I + 0.5\ \mu A$ $6.4 \times 10^{-4} \times I + 3.0\ \mu A$ $6.4 \times 10^{-4} \times I + 30\ \mu A$	Direct Method Using Digital Multimeter Procedure EL.PR 11

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
	100 mA to 1 A	$3.7 \times 10^{-3} \times I$ + 0.10 mA I - Current Cal point	
High DC Voltage Measure[4,6]	1 kV to 20 kV	$4.0 \times 10^{-2} \times U$ U - Volt Cal point	Direct Method Using High Voltage Divider and Digital Multimeter Procedure EL.PR 13
High AC Voltage Measure[4,6]	(50 Hz) 1 kV to 20 kV	$1.5 \times 10^{-1} \times U$ U - Volt Cal point	Direct Method Using High Voltage Divider and Digital Multimeter Procedure EL.PR 14
DC Resistance Measure[4,5]	1 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ	$2.0 \times 10^{-5} \times R$ + 0.5 mΩ $4.2 \times 10^{-5} \times R$ + 1.5 mΩ $2.6 \times 10^{-5} \times R$ + 1.5 mΩ $3.0 \times 10^{-5} \times R$ + 1.5 mΩ $3.0 \times 10^{-5} \times R$ + 30 mΩ $2.7 \times 10^{-5} \times R$ + 8.0 Ω $9.0 \times 10^{-5} \times R$ + 0.20 kΩ $1.0 \times 10^{-3} \times R$ + 1.5 kΩ R - Resistance Cal point	Direct Method Using Digital Multimeter Procedure EL.PR 15
Insulation Resistance	1 kΩ 10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ	0.003 kΩ 0.03 kΩ 0.3 kΩ 0.003 MΩ 0.03 MΩ 0.3 MΩ 0.003 GΩ 0.03 GΩ	Direct Method Using High Resistance standards Procedure EL.PR 16
Time and Frequency			
Frequency Generate[3,5]	10 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 100 kHz 100 kHz to 2.7 GHz	5.5×10^{-9} Hz 2.8×10^{-9} Hz 1.7×10^{-9} Hz 1.7×10^{-9} Hz	Direct Method Using Universal Counter Procedure TF.PR 01
Frequency Measure[4,5]	10 Hz to 500 Hz 500 Hz to 1 kHz 1 kHz to 100 kHz 100 kHz to 2.7 GHz	5.5×10^{-9} Hz 2.8×10^{-9} Hz 1.7×10^{-9} Hz 1.7×10^{-9} Hz	Comparison Method Using Universal Counter Procedure TF.PR 02
Frequency Pilot Measure[4,5]	5 MHz, 10 MHz	1.7×10^{-9}	Direct Method Using Universal Counter Procedure TF.PR 03
Tachometer Non-Contact Type[5]	20 rpm to 500 rpm 500 rpm to 8000 rpm 8000 rpm to 18000 rpm	0.02 rpm 0.15 rpm 1.5 rpm	Indirect method with frequency-controlled spark gaps and Universal Counter Procedure TF.PR 04

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT USED (OPTIONAL)
Stopwatches, Timers[5]	5 s to 15 s 15 s to 7200 s 7200 s to 18000 s 18000 s to 86400 s	0.15 s 0.2 s 0.3 s 1.2 s	Comparison method with calibrated rubidium time-base frequency meter in totalize mode Procedure TF.PR 05
Centrifuge, Agitators, Rotating objects[5]	40 rpm to 18000 rpm	($5.3 \times 10^{-4} \times S$) + 0,25 rpm S- rotational speed - rpm	Direct method with standard tachometer Procedure TF.PR 06
RF/Microwave and Electromagnetics/Optical Radiation			
Lux Meter	40 lux to 550 lux	1 %	Luminance Source and Reference Lux Meter by comparison method Procedure RF-PR-001
Chemical/Gas			
pH Meter	4 pH, 7 pH, 10 pH	0.04 pH	Reference Solutions Direct Method Procedure CH-PR-001
Conductivity Meter	1413 µS/cm 12880 µS/cm	6 µS/cm 55 µS/cm	Reference Solutions Direct Method Procedure CH-PR-002
Viscosity Meter	9920 CPS	5.3 %	Reference Solutions Direct Method Procedure CH-PR-003
Spectrophotometers	279 nm to 635 nm	0.24 nm	Reference Kits Procedure CH-PR-004

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.

[4]Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

[5]Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

[6] Available only as site calibration.