

ACCREDITATION CERTIFICATE

No. LA.02.023

Lithuanian National Accreditation Bureau hereby certifies that

complies with the requirements of

**Nordic Metrology Science Joint
Laboratory**

LST EN ISO/IEC 17025:2018

legal entity: UAB „Nordic Metrology Science“
legal entity code: 120229395

and is competent to perform:

calibration of measuring equipment

The scope of accreditation below is an integral part of this certificate. Locations of the conformity assessment body are specified in the scope of accreditation

Initial accreditation date: **2001-06-18**

Certificate issued / valid since: **2024-02-19**
Version of: **2025-07-08**
Expiry date: **2026-10-21**

Director



DALIA BALEŽENTĖ

The certificate may be changed, its validity suspended or withdrawn by the decision of the National Accreditation Bureau. Information on the actual data of accreditation certificates may be verified at nab.lrv.lt



SCOPE OF ACCREDITATION

Nordic Metrology Science Joint Laboratory, accredited in accordance with **LST EN ISO/IEC 17025:2018**

Location of the conformity assessment body:

The addresses of the places of performance of activities are provided in the table below indicating the accredited activity performed at a specific address.

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (if applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Length	G2-01 2017-08-14	Gauge block	(0,1...100) mm	(0,08 + 0,7 · L) μm	L – length, m
		Gauge block	(100...1000) mm	(0,07 + 1,5 · L) μm	L – length, m
	G2-06 2025-04-15	Class I precision length measures	to 200 m	$\sqrt{0,006 + 0,00006 \cdot L^2}$ mm	L – length, m
		G2-06 2025-04-15	Measures of length, tape measures, rulers, measuring tapes, distance and height measuring instruments	To 200 mm (unit value 0,0001 mm)	1,6 μm
	From 1 m to 200 m (unit value 0,2 mm)			0,1570·L+0,4890 mm	
	to 10 m (unit value 1,0 mm)			0,725 mm	
	From 10 m to 200 m (unit value 1,0 mm)			0,0002·L2+0,0175·L+0,4340 mm	
	G2-02 2017-08-14			Micrometric measuring instruments	To 2000 mm Unit value
		10 μm	5,8 μm		
		1 μm	0,58 μm		
		0,5 μm	0,29 μm		
		0,2 μm	0,13 μm		
		0,1 μm	0,078 μm		
Length	G2-05 2022-09-27	Calliper, depth gauges	To 2000 mm Unit value		
			0.01mm	0.013 mm	

Calibration and measurement capability (CMC), expressed as:					
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Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
			0,02mm	0,026 mm	
			0,05mm	0,065 mm	
			0,1mm	0,13 mm	
	G2-03 2017-08-14	Sieves: -Netting (silk, man-made fibres, twisted yarns, metal wires) -perforated metal sheet; -rods; -grain.	Sieve opening (0,02...125) mm	1,22 µm	Uncertainty does not include the contribution of the best sieve uncertainty
	G23.3 2014-05-30	Length measuring machines	(0...1) m	(0,25 + 6,5 · L) µm	L – Length, m
	G2-04 2017-08-14	Indicators	Unit value		L – Length, m
			100 µm	57,7µm	
			10 µm	5,8 µm	
			1 µm	0,58 µm	
			0,5 µm	0,3 µm	
			0,2 µm	0,14 µm	
			0,1 µm	0,099 µm	
			0,05 µm	0,085 µm	
			0,02 µm	0,081 µm	
			0,01 µm	0,080 µm	
	G2-15 2023-12-19	Thickness measuring instruments	(0...635) mm Unit value		-
			100 µm	57,735 µm	
			10 µm	5,774 µm	
			1 µm	0,578 µm	
			0,1 µm	0,061 µm	
			Thickness standards	0,239 µm	
	G2-19 2023-01-09	Dimensions of parts	(1...100) mm	(0,3...2,7) µm	-
			(100...200) mm	(2,7...5,4) µm	
			(200...300) mm	(5,9...8,6)µm	
			(300...400) mm	(8,6...11,2) µm	
			(400...500) mm	(11,2...13,9) µm	
			(500...600) mm	(13,9...16,6) µm	
			(600...700) mm	(16,6...19,3) µm	
			(700...800) mm	(19,3...22) µm	
			(800...900) mm	(22...25) µm	
			(900...1650) mm	(0,025...0,2) mm	

Calibration and measurement capability (CMC), expressed as:							
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Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius							
Length	G2-16 2018-12-12	Plug gauges	Iki 1000 mm	2 μm	-		
		Feeler gauges	(0,01...2,0) mm	0,12 μm	-		
	G2-12 2018-12-11	Weld seam gauges	(0...100) mm		-		
			Unit value				
			0,01 mm	5,8 μm			
			0,1 mm	58 μm			
			1 mm	578 μm			
			Unscaled length	1,6 μm			
	G2-11 2018-12-13	Microscopes	(0...1000) mm		L – Length, m		
			Unit value				
			0,05 μm	(0,59...6,35) μm			
			0,1 μm	(0,19 + 0,00238 L) μm			
			1 μm	(0,61 + 0,00203 L) μm			
			10 μm	(5,8 + 0,0005 L) μm			
			50 μm	(28,9...29,6) μm			
			100 μm	(57,7...58,1) μm			
Angle	G2-17 2018-12-12	Levels	Unit value		-		
			To 2500 mm				
			0,005 mm/m	(0,003...0,008) mm/m			
			0,0125 mm/m	(0,01...0,015) mm/m			
			0,02 mm/m	(0,013...0,029) mm/m			
			0,1 mm/m	(0,05...0,058) mm/m			
			0,5 mm/m and Digital Spirit levels	(0,1...0,289)mm/m			
			G2-10 2018-12-10	Angle gauge and building angle gauges	(10...100)°	3,3 μm 2,6"	-
					G14.3 2014-05-30	Flat angle measures	(1/60...360°)
	G2-09 2018-12-14	Protractors	Unit value		-		
			(0...360)				
			0,167´	0,098´			
			0,6´	0,35´			
			2´	1,16´			
			3´	1,7´			
5´			2,89´				
10´			5,77´				
15´			8,66´				

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Surface flatness	G2-20 2018-12-12	Scribing gauge Glass plates and other local surfaces For surface flatness and straightness	30'	17,32'	-
			60'	34,64'	
			To 500 mm	0,896 μm	
			Diameter to 100 mm	0,023 μm	
Mass	EURAMET/cg-18 v. 4.0 (11/2015) M2-02 2018-12-16	Non-automatic weighing instruments	From 10 mm	1,1 6μm	R- scale display
			Calibrated using weights		
			E1 accuracy class		
			From 1 mg to 10 kg	(0,0018 + 2,96·10 ⁻⁴ · R) mg	
			E2 accuracy class		
			From 1 mg to 24 kg	(0,0036 + 9,5·10 ⁻⁴ · R) mg	
			F1 accuracy class		
			From 1 mg to 65 kg	(0,0130 + 2,9·10 ⁻³ · R) mg	
			F2 accuracy class		
			From 10 mg to 1 t	(0,079 + 8,8·10 ⁻³ · R) mg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights E2 accuracy class	M1 accuracy class		-
			From 1 kg to 3 t	(0,00032 + 3,5·10 ⁻⁵ · R) kg	
			From 3 t to 20 t	(0,11 + 3,5·10 ⁻⁵ · R) kg	
			(1...100) mg	0,002 mg	
			200 mg	0,003 mg	
			500 mg	0,004 mg	
			1 g	0,010 mg	
			2 g	0,012 mg	
			5 g	0,015 mg	
			10 g	0,020 mg	
			20 g	0,025 mg	
			50 g	0,03 mg	
			100 g	0,05 mg	
			200 g	0,10 mg	
			500 g	0,25 mg	
			1 kg	0,50 mg	
			2 kg	1,0 mg	
			5 kg	2,5 mg	
			10 kg	5,0 mg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights F1 accuracy class	(1...10) mg	0,003 mg	-
			20 mg	0,004 mg	
			50 mg	0,006 mg	
			100 mg	0,007 mg	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights F2 accuracy class	200 mg	0,009 mg	-
			500 mg	0,011 mg	
			1 g	0,02 mg	
			2 g	0,02 mg	
			5 g	0,03 mg	
			10 g	0,03 mg	
			20 g	0,04 mg	
			50 g	0,05 mg	
			100 g	0,08 mg	
			200 g	0,17 mg	
			500 g	0,42 mg	
			1 kg	0,8 mg	
			2 kg	1,7 mg	
			5 kg	4,3 mg	
			10 kg	9 mg	
			20 kg	17 mg	
			(1...5) mg	0,009 mg	
			10 mg	0,01 mg	
			20 mg	0,01 mg	
			50 mg	0,02 mg	
			100 mg	0,02 mg	
			200 mg	0,03 mg	
			500 mg	0,04 mg	
			1 g	0,04 mg	
			2 g	0,06 mg	
			5 g	0,07 mg	
			10 g	0,09 mg	
			20 g	0,12 mg	
			50 g	0,14 mg	
			100 g	0,2 mg	
			200 g	0,4 mg	
			500 g	1,1 mg	
			1 kg	2 mg	
			2 kg	4 mg	
			5 kg	11 mg	
			10 kg	22 mg	
			20 kg	44 mg	
			(1...5) mg	0,03 mg	
			10mg	0,04 mg	
			20 mg	0,04 mg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights M1 accuracy class	Weights		

Calibration and measurement capability (CMC), expressed as:					
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Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights M1-2 accuracy class	50 mg	0,06 mg	-
			100 mg	0,07 mg	
			200 mg	0,09 mg	
			500 mg	0,11 mg	
			1 g	0,14 mg	
			2 g	0,17 mg	
			5 g	0,21 mg	
			10 g	0,29 mg	
			20 g	0,36 mg	
			50 g	0,44 mg	
			100 g	0,7 mg	
			200 g	1,5 mg	
			500 g	3,7 mg	
			1 kg	7 mg	
			2 kg	15 mg	
			5 kg	37 mg	
			10 kg	74 mg	
			20 kg	148 mg	
			500 kg	12000 mg	
			1000 kg	37000 mg	
			2000 kg	58000 mg	
Force	ISO 376:2011 J2-01 2018-12-13	Force gauges (calibration with weights)	(0...2) kN	0,02 %	Calibration is for general purpose only static force dynamometers
	ISO 376:2011 J2-01 2018-12-13	Force gauges (calibration DO-II-5)			F – force, kN Calibration shall be carried out only for general-purpose structures force dynamometers
	LST EN ISO 7500-1:2018, except p. 6.4.8 J2-02 2024-01-16	Force testing machines (calibration with weights)	From 0,1 N to 30 kN	0,012...0,074 %	
Force	LST EN ISO 7500-1:2018, except p. 6.4.8 J2-02 2024-01-16	Force testing machines (calibration with Dynamometers)	(0,2...2) kN	0,054...0,27 %	-
			(2...5) kN	0,11...0,27%	
			(5...100) kN	(0,014...0,031)%	
			(100...1000) kN	(0,020...0,044)%	
			(300...3000) kN	(0,020...0,0453%	

Calibration and measurement capability (CMC), expressed as:					
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Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
			5 kN	0,031 %	
			10 kN	0,024 %	
			15 kN	0,020 %	
			20 kN	0,019 %	
			25 kN	0,017 %	
			30 kN	0,016 %	
			35 kN	0,016 %	
			40 kN	0,014 %	
			45 kN	0,014 %	
			50 kN	0,014 %	
			100 kN	0,021 %	
			150 kN	0,044%	
			200 kN	0,020%	
			250 kN	0,020%	
			300 kN	0,020%	
			400 kN	0,020%	
			500 kN	0,020%	
			600 kN	0,020%	
			700 kN	0,020%	
			800 kN	0,020%	
			900 kN	0,020%	
			1000 kN	0,020%	
			1200 kN	0,052%	
			1500 kN	0,052%	
			1800 kN	0,052%	
			2100 kN	0,052%	
			2400 kN	0,052%	
			2700 kN	0,052%	
			3000 kN	0,052%	
Force	LST ISO 21069-2:2011 J2-04 2017-09-16	Vehicle brake testers	1000 N	0,86%	-
			2000 N	0,43%	
			3000 N	0,29%	
			4000 N	0,21%	
			5000 N	0,17%	
			6000 N	0,14%	
			9000 N	0,10%	
			12000 N	0,07%	
			15000 N	0,06%	
Acceleration	J2-06 2017-03-13		(0,00...9,81) m/s ²	0,007 m/s ²	-

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Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Distance	KTT 2.3 2017-04-25	Headlamp adjustment and testing stands for motor vehicles	-	0,65 mm	-
Moment of a force	LST EN ISO 6789-1:2017 LST EN ISO 67892:2017 (except Annex C)	Torque wrenches and screwdrivers	(0,2...1) Nm	Indicating torque value $\sqrt{1 + \frac{d^2}{X_r^2} \cdot 1672} \%$	d – calibrated instrument unit value, Nm X_r – measured value of the moment of force, Nm
				Torque setting value $\sqrt{1 + \frac{d^2}{X_r^2} \cdot 833,33} \%$	
			(1...3000) Nm	Indicating torque value $\sqrt{0,25 + \frac{d^2}{X_r^2} \cdot 1672} \%$	
				Torque setting value $\sqrt{0,25 + \frac{d^2}{X_r^2} \cdot 833,33} \%$	
Rotation period	J2-05 2018-12-13	Laboratory centrifuges	100 rpm	0,8 rpm	-
			(100...2000) rpm	1,2 rpm	
			(2000...5000) rpm	2,1 rpm	
			(5000...10000) rpm	3,1 rpm	
			(10000...20000) rpm	4,1 rpm	
			(-20 ... +100) °C	1,4 °C	
Temperature			60 s ... 30 min	1 s	Temperature – in the centrifuge chamber
Rotation period	J2-0 7 2021-05-10	Tachometers	Contact measurement		-
			100 rpm	0,83 rpm	
			500 rpm	0,90 rpm	
			1000 rpm	1,80 rpm	
			3000 rpm	0,87 rpm	
			5000 rpm	1,25 rpm	
			6000 rpm	1,68 rpm	
			8000 rpm	2,00 rpm	
			Non-contact measurement		
			12 rpm	0,65 rpm	
		Tachometers			-

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Pressure	EURAMET/cg-17 4.1 (09/2022) S2-02 2025-05-09	Electromechanical and mechanical manometers	100 rpm	0,33 rpm	p -pressure, Pa
			1000 rpm	1,80 rpm	
			25000 rpm	7,27 rpm	
			50000 rpm	8,02 rpm	
			70000 rpm	10,52 rpm	
			90000 rpm	12,61 rpm	
			100000 rpm	14,01 rpm	
			(0 ... 2500) Pa	$(5,01 \cdot 10^{-9} \cdot p^2 + 3,73 \cdot 10^{-5} \cdot p + 0,597) \text{ Pa}$	
			(-95 ... 0) kPa	$(1,67 \cdot 10^{-9} \cdot p^2 + 1,19 \cdot 10^{-4} \cdot p + 2,83) \text{ Pa}$	
			(2,5 ... 150) kPa	$(2,88 \cdot 10^{-11} \cdot p^2 + 1,61 \cdot 10^{-5} \cdot p + 1,02) \text{ Pa}$	
			(150 ... 4000) kPa	$(8,55 \cdot 10^{-12} \cdot p^2 + 4,2 \cdot 10^{-5} \cdot p + 35,2) \text{ Pa}$	
			(3500 ... 7000) kPa	611 Pa	
			(7000 ... 45000) kPa	$(6,84 \cdot 10^{-12} \cdot p^2 + 3,76 \cdot 10^{-4} \cdot p - 1572,82) \text{ Pa}$	
			(45000 ... 70000) kPa	$(2,88 \cdot 10^{-13} \cdot p^2 + 4,33 \cdot 10^{-5} \cdot p - 1931,50) \text{ Pa}$	
			(0 ... 1400) kPa	$(8,55 \cdot 10^{-12} \cdot p^2 + 4,2 \cdot 10^{-5} \cdot p + 35,2) \text{ Pa}$	
Volume	LST EN 12645-2014 86/217EEB EURAMET/cg-17 4.1 (09/2022) S2-02, 2025-05-09	Tyre pressure measuring instruments			-
Volume	EURAMET/cg-19 v. 3.0 (09/2018) V2-03 2025-03-10	Volumetric glassware, Volume standards	1 ml	0,0020 ml	-
			2 ml	0,0030 ml	
			5 ml	0,0030 ml	
			10 ml	0,0070 ml	
			20 ml	0,010 ml	
			50 ml	0,017 ml	
			100 ml	0,022 ml	
			200 ml	0,022 ml	
			250 ml	0,040 ml	
			500 ml	0,070 ml	
			1000 ml	0,12 ml	
			2000 ml	0,12 ml	
			5000 ml	0,26 ml	
			10000 ml	0,50 ml	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (if applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
	LST EN ISO 8655-6:2022 V2-04 2022-08-23	Piston pipettes	1 µl ... 200 ml	(0,0031+1,154·10 ⁻³ ·V) µl	V -Volume, µl Uncertainty does not include scatter of readings
Concentration of hydrogen ions H ⁺ in solution. Oxidation reduction potential evj.	FC2-01 2019-02-28	pH meters with automatic temperature correction	(-2000... +2000) mV (-1...19) pH	0,089 mV 0,0011 pH 0,0013 pH	Calibration with buffer solutions Calibration with a potentiometer or simulator
Wavelength	FC2-05 2019-02-27	Spectrophotometers, photometers	(279...638) nm	0,17 nm	-
Optical absorption			681 nm	0,18 nm	
			875 nm	0,21 nm	
			0,3 A	0,0029 A	
			0,5 A	0,0033 A	
			1,0 A	0,0045 A	
Electrical conductivity of liquids	FC2-02 2019-02-28	Conductometers	0,1 µS/cm ... 24,8 mS/cm	0,15 %	Calibration with a reference resistor
Electrical conductivity of liquids		Conductometers	1,3 µS/cm	0,014 µS/cm	Calibration with reference solutions
			4,98 µS/cm	0,05 µS/cm	
			84 µS/cm	0,80 µS/cm	
			1413 µS/cm	5,03 µS/cm	
			5000 µS/cm	20,01 µS/cm	
			12880 µS/cm	50,00 µS/cm	
Dissolved oxygen concentration in water	FC2-03 2019-02-27	Oximeters	(0 ... 20) mg/l	At 15 °C 0,015 mg/l At 20 °C 0,012 mg/l At 25 °C 0,011 mg/l	-
Light transmission coefficient	FC2-06 2019-02-27	Window tint meter	(0 ... 100) %	At 10 % 0,26 % At 50 % 0,89 % At 90 % 1,37 %	-
Illumination	FC2-04 2019-03-10	Luxmeters	(5 ... 1200) lx	At 5 lx 0,59 lx At 50 lx	

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Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Gas concentration	LST EN 45544-1:2015 FC2-07	Explosive/flammable gas analysers, alarm devices and measuring systems Toxic gas measurement systems and alarm devices Toxic gas measurement systems and alarm devices Oxygen analysers		1,38 lx At 100 lx 2,76 lx At 350 lx 8,92 lx At 500 lx 17,31 lx At 1200 lx 50,44 lx	
			(0,25 ... 60) vol.% CH ₄	1,1 %	-
			(0,03 ... 0,7) vol.% C ₃ H ₈	1,1 %	
			(0,16 ... 1,60) vol.% H ₂	1,1 %	
			(20 ... 2000) ppm CO	1,1 %	
			(20 ... 2000) ppm NO	1,1 %	
			(20 ... 2000) ppm SO ₂	1,1 %	
			(10 ... 250) ppm NO ₂	3,1 %	
			(35 ... 2000) ppm CO ₂	1,1 %	
			(1 ... 50) vol.% CO ₂	1,1 %	
			(1 ... 2000) ppm H ₂ S	3,1 %	
			(5 ... 5000) ppm NH ₃	3,1 %	
			(0,5 ... 10) ppm Cl ₂	2,1 %	
			(10 ... 100) ppm isobutylene	1,1 %	
			(0 ... 25) vol.% O ₂	1,1 %	
	OIML R 99-1 & 2:2008 FC2-07 2019-02-07	Instruments for measuring vehicle exhaust emissions	(0,5 ... 9) vol.% CO	1,1 %	
			(0,6 ... 14) vol.% CO ₂	1,1 %	
			(200 ... 2000) ppm HC	1,1 %	
Light refractive index	FC2-09 2019-01-09	Refractometers	(0 ... 25) vol.% O ₂	1,1 %	
			n _D = (1,33 ... 1,65)	3,06·10 ⁻⁵	-
			Calibration with reference materials: n _D = 1,33...		
			(0 Brix %)		
			n _D = 1,40...		
			(42 Brix %)		
			n _D = 1,45...		
			(64 Brix %)		
			n _D = 1,47...		

Calibration and measurement capability (CMC), expressed as:					
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Angle of rotation of the polarisation plane	FC2-08 2019-02-28	Polarimeters	(74 Brix %)		
			$n_D = 1,56...$		
			Calibration with glass refractive index standards		
			$n_D = 1,47...$		
			$n_D = 1,50...$		
			$n_D = 1,54...$		
			$n_D = 1,59...$		
Temperature	ISO 386:1997 LST EN 1770:2002 LST EN 1771:2004 OIML R 133:2002 T2-01 2025-05-09	Liquid-in-glass thermometers	$n_D = 1,62...$		
			$n_D = 1,65...$		
			6 °	0,0012°	-
			15 °Z	0,0036°Z	
			40 °		
			99 °Z		
			-40 °		
Temperature	LST EN 13485:2024 T2-02 2025-05-09	Digital thermometers	-99 °Z		
			(-65...300) °C		-
			-65 °C	0,012 °C	
			-38,83 °C	0,012 °C	
			0,01 °C	0,012 °C	
			29,76 °C	0,010 °C	
			231,93 °C	0,011 °C	
Temperature	LST EN 13485:2024 T2-02 2025-05-09	Digital thermometers	300 °C	0,012 °C	
			(-80...1200) °C		-
			-80 °C	0,007 °C	
			-65 °C	0,013 °C	
			-50 °C	0,013 °C	
			-38,834 °C	0,003 °C	
			0,01 °C	0,006 °C	
Temperature	LST EN 60751:2008	Industrial resistive temperature	29,765 °C	0,004 °C	
			231,928 °C	0,007 °C	
			419,527 °C	0,009 °C	
			450 °C	0,040 °C	
			660,323 °C	0,013 °C	
			800 °C	0,15 °C	
			1000 °C	0,59 °C	
Temperature	LST EN 60751:2008	Industrial resistive temperature	1200 °C	0,83 °C	
			(-75...660) °C		-
			-75°C	0,0049 °C	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
	T2-03 2025-05-09	sensors (Resistance thermometers)	-38,834 °C	0,0052 °C	
			0,01 °C	0,0075 °C	
			29,765 °C	0,0059 °C	
			231,928 °C	0,0088 °C	
			419,527 °C	0,011 °C	
			660,323 °C	0,015 °C	
Temperature	LST EN 60068-3-11:2007 T2-04 2019-01-16	Climatic chambers	(-65 ...300) °C	0,35 °C	-
Temperature	LST EN 285:2015+A1:2021 LST EN 13060:2014+A1:2019 T2-05 2022-09-27	Drying cabinets, electric ovens, sterilisers	(20...1200) °C		-
			20 °C	0,35 °C	
			30,00 °C	0,35 °C	
			157,03 °C	0,35 °C	
			232,00 °C	0,35 °C	
			419,53 °C	0,53 °C	
			660,32 °C	0,70 °C	
			1084,62 °C	1,07 °C	
Temperature	T2-06 2019-01-26	Thermostatic baths	1200 °C	1,06 °C	-
			(10...95) °C		
			10 °C	0,013 °C	
			25 °C	0,012 °C	
			50 °C	0,012 °C	
			75 °C	0,012 °C	
Temperature	EURAMET cg-13 v.4.0 2017 T2-07 2025-05-09	Thermostats	95 °C	0,012 °C	
			(-65... 1200) °C		
			-65 °C	0,013 °C	
			-50 °C	0,013 °C	
			-38,8 °C	0,003 °C	
			0,01 °C	0,006 °C	
			29,765 °C	0,004 °C	
			231,928 °C	0,007 °C	
			419,527 °C	0,009 °C	
			660,323	0,013 °C	
			800 °C	0,161 °C	
			1000 °C	0,828 °C	
			1200 °C	1,01 °C	
Temperature	T2-08 2025-05-09	Pyrometers	(-50 ... 1200) °C -50 °C	1,21 °C	-

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
Temperature	EURAMET cg/8 v. 3.1 (2020) T2-09 2022-09-27	Thermocouples	-25 °C	0,60 °C	-
			-10 °C	0,38 °C	
			0 °C	0,25 °C	
			50 °C	0,13 °C	
			80 °C	0,14 °C	
			100 °C	0,15 °C	
			300 °C	0,28 °C	
			400 °C	0,89 °C	
			500 °C	0,92 °C	
			600 °C	0,97 °C	
			800 °C	2,90 °C	
			1000 °C	3,65 °C	
			1200 °C	3,85 °C	
			(-40...1200) °C		
			-40 °C	0,17 °C	
			-38,83 °C 0,01 °C	0,16 °C	
			30,00 °C	0,14 °C	
Humidity	T2-10 2019-01-24	Relative humidity and temperature meters	157,03 °C	0,12 °C	-
			232,00 °C	0,096 °C	
			419,53 °C	0,089 °C	
			660,32 °C	1,23 °C	
			1084,62 °C	1,31 °C	
			1200 °C	1,53 °C	
			(10 ... 98) %		
			10 %	0,22 %	
			20 %	0,43 %	
			50 %	1,1 %	
			70 %	1,5 %	
			98 %	2,20 %	
			(-10 ... + 70) °C	0,12 °C	
DC voltage	E32.3 2012-11-12	Calibrators (sources)	-10 °C	0,025 °C	U - measured voltage value
			0 °C	0,025 °C	
			25 °C	0,024 °C	
			50 °C	0,024 °C	
			70 °C	0,024 °C	
			(0...100) mV	$(3,8 \cdot 10^{-6} \cdot U + 10^{-4})$ mV	
			(0,1...1) V	$(1,7 \cdot 10^{-6} \cdot U + 0,4 \cdot 10^{-6})$ V	
			(1...10) V	$(1,6 \cdot 10^{-6} \cdot U + 4 \cdot 10^{-6})$ V	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
	E32.3 2012-11-12	Calibrators (sources)	(10 ...100) V	$(2,8 \cdot 10^{-6} \cdot U + 40 \cdot 10^{-6})$ V	U - measured voltage value
			(100 ...1000) V	$(2,9 \cdot 10^{-6} \cdot U + 500 \cdot 10^{-6})$ V	
			(0 ...1) mV		
			20 Hz	$(2,1 \cdot 10^{-3} \cdot U + 4 \cdot 10^{-3})$ mV	
			(20 ...1000) Hz	$(9,8 \cdot 10^{-4} \cdot U + 2 \cdot 10^{-3})$ mV	
			(1 ...10) kHz	$(1,7 \cdot 10^{-3} \cdot U + 4 \cdot 10^{-3})$ mV	
			(10 ...100) kHz	$(1,5 \cdot 10^{-3} \cdot U + 20 \cdot 10^{-3})$ mV	
			(1 ...10) mV		
			10 Hz	$(1,2 \cdot 10^{-3} \cdot U + 4 \cdot 10^{-3})$ mV	
			(10...1000)Hz	$(1,7 \cdot 10^{-4} \cdot U + 2 \cdot 10^{-3})$ mV	
			(1 ...10) kHz	$(2,4 \cdot 10^{-4} \cdot U + 4 \cdot 10^{-3})$ mV	
			(10 ...100) kHz	$(7,7 \cdot 10^{-4} \cdot U + 20 \cdot 10^{-3})$ mV	
			(10 ...100) mV		
			(10 ...40) Hz	$(2,3 \cdot 10^{-4} \cdot U + 4 \cdot 10^{-3})$ mV	
AC voltage	E32.3 2012-11-12	Calibrators (sources) 1	(40 ...1000) Hz	$(1,1 \cdot 10^{-4} \cdot U + 2 \cdot 10^{-3})$ mV	U - measured voltage value
			(1 ...10) kHz	$(1,1 \cdot 10^{-4} \cdot U + 4 \cdot 10^{-3})$ mV	
			(10 ...100) kHz	$(7,1 \cdot 10^{-4} \cdot U + 20 \cdot 10^{-3})$ mV	
			(0,1 ...1) V		
			(10 ...30) Hz	$(1,1 \cdot 10^{-4} \cdot U + 120 \cdot 10^{-6})$ V	
			(30 ...1000) Hz	$(6,3 \cdot 10^{-5} \cdot U + 20 \cdot 10^{-6})$ V	
AC voltage	E32.3 2012-11-12	Calibrators (sources) 2	(1 ...10) kHz	$(8,2 \cdot 10^{-5} \cdot U + 20 \cdot 10^{-6})$ V	
			(10 ...30) kHz	$(2,1 \cdot 10^{-4} \cdot U + 40 \cdot 10^{-6})$ V	
			(30 ...100) kHz	$(5,1 \cdot 10^{-4} \cdot U + 200 \cdot 10^{-6})$ V	
			(100 ...300) kHz	$(3,1 \cdot 10^{-3} \cdot U + 2 \cdot 10^{-3})$ V	
			300 kHz ...1 MHz	$(10,1 \cdot 10^{-3} \cdot U + 20 \cdot 10^{-3})$ V	
			(1 ...10) V		
			(10 ...30) Hz	$(1,1 \cdot 10^{-4} \cdot U + 1,2 \cdot 10^{-3})$ V	
			(30 ...1000) Hz	$(6,3 \cdot 10^{-5} \cdot U + 200 \cdot 10^{-6})$ V	
			(1 ...10) kHz	$(8,2 \cdot 10^{-5} \cdot U + 200 \cdot 10^{-6})$ V	
			(10 ...30) kHz	$(2,1 \cdot 10^{-4} \cdot U + 400 \cdot 10^{-6})$ V	
			(30 ...100) kHz	$(5,1 \cdot 10^{-4} \cdot U + 2 \cdot 10^{-3})$ V	
			(100 ...300) kHz	$(3,1 \cdot 10^{-3} \cdot U + 20 \cdot 10^{-3})$ V	
			300 kHz ...1 MHz	$(10,1 \cdot 10^{-3} \cdot U + 200 \cdot 10^{-3})$ V	
			(10 ...100) V		
			(10 ...30) Hz	$(1,1 \cdot 10^{-4} \cdot U + 12 \cdot 10^{-3})$ V	
			(30 ...300) Hz	$(6,8 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3})$ V	
			(300...1000) Hz	$(6,5 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3})$ V	
			(1 ...10) kHz	$(8,4 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3})$ V	
			(10 ...30) kHz	$(2,1 \cdot 10^{-4} \cdot U + 4 \cdot 10^{-3})$ V	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
AC current	E32.3 2012-11-12	Calibrators (sources) 4	(30 ...100) kHz	$(5,1 \cdot 10^{-4} \cdot U + 20 \cdot 10^{-3}) \text{ V}$	I-measurable current value
			(100 ...1000) V		
			(10 ...40) Hz	$(1,1 \cdot 10^{-4} \cdot U + 20 \cdot 10^{-3}) \text{ V}$	
			40 Hz ...10 kHz	$(9,0 \cdot 10^{-5} \cdot U + 20 \cdot 10^{-3}) \text{ V}$	
			(10 ...30) kHz	$(2,1 \cdot 10^{-4} \cdot U + 40 \cdot 10^{-3}) \text{ V}$	
			(30 ...100) kHz	$(5,1 \cdot 10^{-4} \cdot U + 0,2) \text{ V}$	
			(30 ...300) Hz	$(6,8 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3}) \text{ V}$	
			(300...1000) Hz	$(6,5 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3}) \text{ V}$	
			(1 ...10) kHz	$(8,4 \cdot 10^{-5} \cdot U + 2 \cdot 10^{-3}) \text{ V}$	
			(10 ...30) kHz	$(2,1 \cdot 10^{-4} \cdot U + 4 \cdot 10^{-3}) \text{ V}$	
			(30 ...100) kHz	$(5,1 \cdot 10^{-4} \cdot U + 20 \cdot 10^{-3}) \text{ V}$	
			to 100 μA	$(8,2 \cdot 10^{-6} \cdot I + 4 \cdot 10^{-4}) \mu\text{A}$	
			(0,1 ...1) mA	$(8,3 \cdot 10^{-6} \cdot I + 4 \cdot 10^{-6}) \text{ mA}$	
			(1 ...10) mA	$(7,9 \cdot 10^{-6} \cdot I + 40 \cdot 10^{-6}) \text{ mA}$	
			(10 ...100) mA	$(3,1 \cdot 10^{-5} \cdot I + 8 \cdot 10^{-4}) \text{ mA}$	
			(0,1 ...1) A	$(1,3 \cdot 10^{-4} \cdot I + 16 \cdot 10^{-6}) \text{ A}$	
			(1 ...10) A	$(3,0 \cdot 10^{-4} \cdot I + 4 \cdot 10^{-4}) \text{ A}$	
			(0 ...100) μA		
			(10 ...1000) Hz	$(2,6 \cdot 10^{-4} \cdot I + 20 \cdot 10^{-3}) \mu\text{A}$	
			(1 ...5) kHz	$(2,8 \cdot 10^{-4} \cdot I + 20 \cdot 10^{-3}) \mu\text{A}$	
			(0,1 ...1) mA		
			10 Hz ...5 kHz	$(2,6 \cdot 10^{-4} \cdot I + 2 \cdot 10^{-4}) \text{ mA}$	
			(1 ...10) mA		
			10 Hz ...5 kHz	$(2,6 \cdot 10^{-4} \cdot I + 2 \cdot 10^{-3}) \text{ mA}$	
			(0,1 ...100) mA		
			10 Hz ...5 kHz	$(2,6 \cdot 10^{-4} \cdot I + 20 \cdot 10^{-3}) \text{ mA}$	
AC current	E32.3 2012-11-12	Calibrators (sources) 5	(0,1 ...1) A		I- measured voltage value
			(10 ...1000) Hz	$(6,1 \cdot 10^{-4} \cdot I + 2 \cdot 10^{-4}) \text{ A}$	
			(1 ...5) kHz	$(7,1 \cdot 10^{-4} \cdot I + 2 \cdot 10^{-4}) \text{ A}$	
			(1 ...10) A		
			(40 ...1000) Hz	$(8,1 \cdot 10^{-4} \cdot I + 2 \cdot 10^{-3}) \text{ A}$	
Resistance	E32.3 2012-11-12	Calibrators (sources) and resistors 6	(0 ...1,0) Ω	$(4,9 \cdot 10^{-6} \cdot R + 4 \cdot 10^{-6}) \Omega$	R- value of the measured resistance
			(1 ...10,0) Ω	$(5,1 \cdot 10^{-6} \cdot R + 1,4 \cdot 10^{-5}) \Omega$	
			(10 ...100,0) Ω	$(4,6 \cdot 10^{-6} \cdot R + 5 \cdot 10^{-5}) \Omega$	
			(0,1 ...1) k Ω	$(4,1 \cdot 10^{-6} \cdot R + 5 \cdot 10^{-7}) \text{ k}\Omega$	
			(1 ...10) k Ω	$(4,1 \cdot 10^{-6} \cdot R + 5 \cdot 10^{-6}) \text{ k}\Omega$	
			(10 ...100) k Ω	$(4,7 \cdot 10^{-6} \cdot R + 2,5 \cdot 10^{-5}) \text{ k}\Omega$	
			(0,1 ...1) M Ω	$(6,6 \cdot 10^{-6} \cdot R + 10^{-6}) \text{ M}\Omega$	
			(1 ...10) M Ω	$(10 \cdot 10^{-6} \cdot R + 10^{-4}) \text{ M}\Omega$	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
DC voltage	EURAMET cg-15 v.3.0 2015 - for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(10 ...100) MΩ	$(3,3 \cdot 10^{-5} \cdot R + 0,01) \text{ M}\Omega$	U - gauge reading
			(0 ...100) mV	$(3,6 \cdot 10^{-6} \cdot U + 4,0 \cdot 10^{-4}) \text{ mV}$	
			(0,1 ...1)V	$(2,8 \cdot 10^{-6} \cdot U + 0,64 \cdot 10^{-6}) \text{ V}$	
			(1 ...10) V	$(2,1 \cdot 10^{-6} \cdot U + 2,4 \cdot 10^{-6}) \text{ V}$	
			1 V	$1,5 \cdot 10^{-6} \text{ V}$	
			10 V	$1,5 \cdot 10^{-5} \text{ V}$	
			(10 ...100) V	$(3,6 \cdot 10^{-6} \cdot U + 40 \cdot 10^{-6}) \text{ V}$	
AC voltage		Digital and Analog multimeters	(100 ...1000) V	$(4,2 \cdot 10^{-6} \cdot U + 400 \cdot 10^{-6}) \text{ V}$	U - gauge reading
			(0 ...1) mV		
			(10 ...55) Hz	$(3,4 \cdot 10^{-3} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			55 Hz ...1 kHz	$(1,0 \cdot 10^{-3} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(1 ...10) kHz	$(2,9 \cdot 10^{-3} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(10 ...100) kHz	$(1,85 \cdot 10^{-2} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(1 ...10) mV		
			(10 ...55) Hz	$(1,25 \cdot 10^{-3} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			55 Hz ...1 kHz	$(1,60 \cdot 10^{-4} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(1 ...10) kHz	$(3,54 \cdot 10^{-4} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(10 ...100) kHz	$(2,45 \cdot 10^{-3} \cdot U + 4,32 \cdot 10^{-3}) \text{ mV}$	
			(10 ...100) mV		
			(10 ...31) Hz	$(2,35 \cdot 10^{-4} \cdot U + 7,2 \cdot 10^{-3}) \text{ mV}$	
			(32 ...300) Hz	$(2,12 \cdot 10^{-4} \cdot U + 7,2 \cdot 10^{-3}) \text{ mV}$	
			300 Hz ...1 kHz	$(9,00 \cdot 10^{-5} \cdot U + 7,2 \cdot 10^{-3}) \text{ mV}$	
			(1 ...10) kHz	$(1,07 \cdot 10^{-4} \cdot U + 7,2 \cdot 10^{-3}) \text{ mV}$	
			(10 ...100) kHz	$(8,85 \cdot 10^{-4} \cdot U + 7,2 \cdot 10^{-3}) \text{ mV}$	
			(0,1 ...1) V		
			(10 ...31) Hz	$(2,23 \cdot 10^{-4} \cdot U + 2,4 \cdot 10^{-5}) \text{ V}$	
			(32 ...300) Hz	$(1,97 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-5}) \text{ V}$	
			300 Hz ...1 kHz	$(8,10 \cdot 10^{-5} \cdot U + 8,0 \cdot 10^{-6}) \text{ V}$	
			(1 ...10) kHz	$(1,07 \cdot 10^{-4} \cdot U + 8,0 \cdot 10^{-6}) \text{ V}$	
			(10 ...100) kHz	$(7,00 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-5}) \text{ V}$	
			100 kHz ...1 MHz	$(3,08 \cdot 10^{-2} \cdot U + 3,2 \cdot 10^{-4}) \text{ V}$	
AC voltage	EURAMET cg-15 v.3.0 2015 - for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(1 ...10) V		U - gauge reading
			(10 ...31) Hz	$(2,18 \cdot 10^{-4} \cdot U + 2,4 \cdot 10^{-4}) \text{ V}$	
			(32 ...300) Hz	$(1,95 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-4}) \text{ V}$	
			300 Hz ...1 kHz	$(7,75 \cdot 10^{-5} \cdot U + 8,0 \cdot 10^{-5}) \text{ V}$	
			(1 ...30) kHz	$(1,74 \cdot 10^{-4} \cdot U + 8,0 \cdot 10^{-5}) \text{ V}$	
			(30 ...100) kHz	$(6,97 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-4}) \text{ V}$	
			100 kHz ...1 MHz	$(3,07 \cdot 10^{-2} \cdot U + 4,0 \cdot 10^{-3}) \text{ V}$	
			(10 ...100) V		
			(10 ...31) Hz	$(2,26 \cdot 10^{-4} \cdot U + 2,4 \cdot 10^{-3}) \text{ V}$	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
DC voltage	EURAMET cg-15 v.3.0 2015 - for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(32 ...300) Hz	$(2,00 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-3}) \text{ V}$	I - meter reading
			300 Hz ...1 kHz	$(8,60 \cdot 10^{-5} \cdot U + 8,0 \cdot 10^{-4}) \text{ V}$	
			(1 ...10) kHz	$(1,10 \cdot 10^{-4} \cdot U + 8,0 \cdot 10^{-4}) \text{ V}$	
			(10 ...100) kHz	$(6,93 \cdot 10^{-4} \cdot U + 2,4 \cdot 10^{-3}) \text{ V}$	
			(100 ...1000) V		
			(32 ...300) Hz	$(1,69 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-2}) \text{ V}$	
			300 Hz ...3 kHz	$(1,25 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-2}) \text{ V}$	
			(3 ...30) kHz	$(1,47 \cdot 10^{-4} \cdot U + 1,6 \cdot 10^{-2}) \text{ V}$	
			(30 ...100) kHz	$(8,13 \cdot 10^{-4} \cdot U + 3,2 \cdot 10^{-2}) \text{ V}$	
			(0 ...100) μA	$(4,39 \cdot 10^{-5} \cdot I + 1,6 \cdot 10^{-3}) \mu\text{A}$	
			(0,1 ...1) mA	$(1,93 \cdot 10^{-5} \cdot I + 8,0 \cdot 10^{-6}) \text{ mA}$	
			(1 ...10) mA	$(1,93 \cdot 10^{-5} \cdot I + 8,0 \cdot 10^{-5}) \text{ mA}$	
			(10 ...100) mA	$(3,78 \cdot 10^{-5} \cdot I + 8,0 \cdot 10^{-4}) \text{ mA}$	
			(0,1 ...1) A	$(1,45 \cdot 10^{-4} \cdot I + 16 \cdot 10^{-6}) \text{ A}$	
			(1 ...10) A	$(3,10 \cdot 10^{-4} \cdot I + 400 \cdot 10^{-6}) \text{ A}$	
DC voltage	EURAMET cg-15 v.3.0 2015 - for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(0 ...100) μA		I - meter reading
			10 Hz ...1 kHz	$(4,45 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-3}) \mu\text{A}$	
			(1 ...5) kHz	$(4,84 \cdot 10^{-4} \cdot I + 6,4 \cdot 10^{-3}) \mu\text{A}$	
			(0,1 ...1) mA		
			10 Hz ...1 kHz	$(4,24 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-5}) \text{ mA}$	
			(1 ...5) kHz	$(4,35 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-5}) \text{ mA}$	
			(1 ...10) mA		
			10 Hz ...1 kHz	$(4,24 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-4}) \text{ mA}$	
			(1 ...5) kHz	$(4,35 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-4}) \text{ mA}$	
			(10 ...100) mA		
			10 Hz...1 kHz	$(43,4 \cdot 10^{-5} \cdot I + 4,8 \cdot 10^{-3}) \text{ mA}$	
			1 kHz...5 kHz	$(43,4 \cdot 10^{-5} \cdot I + 4,8 \cdot 10^{-3}) \text{ mA}$	
			(0,1 ...1) A		
			10 Hz...1 kHz	$(8,00 \cdot 10^{-4} \cdot I + 48 \cdot 10^{-6}) \text{ A}$	
			(1 ...5) kHz	$(9,25 \cdot 10^{-4} \cdot I + 64 \cdot 10^{-6}) \text{ A}$	
			(1 ...10) A		
			(10 ...1000) Hz	$(1,06 \cdot 10^{-3} \cdot I + 9,6 \cdot 10^{-4}) \text{ A}$	
			(1 ...5) kHz	$(2,78 \cdot 10^{-4} \cdot I + 1,2 \cdot 10^{-3}) \text{ A}$	
			(5 ...10) kHz	$(2,79 \cdot 10^{-4} \cdot I + 4,8 \cdot 10^{-3}) \text{ A}$	
Resistance 4 wires	EURAMET cg-15 v.3.0 2015 – for digital measuring Instruments only E23.3	Digital and Analog multimeters	(0 ...10,0) Ω	$13 \cdot 10^{-6} \cdot R \Omega$	R - meter reading
			(10 ...100,0) Ω	$6,9 \cdot 10^{-6} \cdot R \Omega$	
			(0,1 ...10) k Ω	$5,2 \cdot 10^{-6} \cdot R \text{ k}\Omega$	
			(10 ...100) k Ω	$7,8 \cdot 10^{-6} \cdot R \text{ k}\Omega$	
			(0,1 ...1) M Ω	$17 \cdot 10^{-6} \cdot R \text{ M}\Omega$	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
	2022-09-27		(1 ...10) MΩ	$32 \cdot 10^{-6} \cdot R \text{ M}\Omega$	
			(10 ...100) MΩ	$202 \cdot 10^{-6} \cdot R \text{ M}\Omega$	
			0,001 Ω	$6 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			0,01 Ω	$6 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			0,1 Ω	$6 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			1 Ω	$4 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			10 Ω	$5 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			100 Ω	$5 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			1000 Ω	$5 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			10000 Ω	$7 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			100000 Ω	$7 \cdot 10^{-6} \cdot R \text{ }\Omega$	
			1000000 Ω	$7 \cdot 10^{-6} \cdot R \text{ }\Omega$	
Resistance 2 wires	EURAMET cg-15 v.3.0 2015-for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(0 ...10) Ω	$(4,0 \cdot 10^{-6} \cdot R + 0,0084) \text{ }\Omega$	R - meter reading
			(10 ...1000) Ω	$8,5 \cdot 10^{-5} \cdot R \text{ }\Omega$	
			(1 ...10) kΩ	$1,2 \cdot 10^{-5} \cdot R \text{ k}\Omega$	
			(10 ...100) kΩ	$8,1 \cdot 10^{-6} \cdot R \text{ k}\Omega$	
			(0,1 ...1) MΩ	$17 \cdot 10^{-6} \cdot R \text{ M}\Omega$	
			(1 ...10) MΩ	$32 \cdot 10^{-6} \cdot R \text{ M}\Omega$	
			(10 ...100) MΩ	$202 \cdot 10^{-6} \cdot R \text{ M}\Omega$	
Electrical capacity	EURAMET cg-15 v.3.0 2015-for digital measuring Instruments only E23.3 2022-09-27	Digital and Analog multimeters	(0,75 ...4) nF	$(0,6 \cdot 10^{-2} \cdot C + 0,015) \text{ nF}$	C - meter reading
			(4 ...40) nF	$(0,45 \cdot 10^{-2} \cdot C + 0,030) \text{ nF}$	
			(40 ...400) nF	$(0,43 \cdot 10^{-2} \cdot C + 0,160) \text{ nF}$	
			(0,4 ...4) μF	$(0,56 \cdot 10^{-2} \cdot C + 0,0016) \text{ }\mu\text{F}$	
			(4 ...40) μF	$(0,69 \cdot 10^{-2} \cdot C + 0,016) \text{ }\mu\text{F}$	
			(40 ...400) μF	$(0,69 \cdot 10^{-2} \cdot C + 0,160) \text{ }\mu\text{F}$	
			(0,4 ...4) mF	$(0,69 \cdot 10^{-2} \cdot C + 0,0016) \text{ mF}$	
			(4 ...40) mF	$(1,5 \cdot 10^{-2} \cdot C + 0,060) \text{ mF}$	
			(0,4 ...4) mF	$(0,69 \cdot 10^{-2} \cdot C + 0,0016) \text{ mF}$	
			(4 ...40) mF	$(1,5 \cdot 10^{-2} \cdot C + 0,060) \text{ mF}$	
Frequency	EA1.3 2014-06-06	Electronic and digital frequency meters	from 0,1 Hz to 1 MHz	$5 \cdot 10^{-9} \cdot f \text{ Hz}$	Sine wave. Equalisation method. f – frequency measured, Hz
			(1 ... 300) MHz	$3 \cdot 10^{-8} \cdot f \text{ Hz}$	
			(0,1 ... 100) Hz	$(5 \cdot 10^{-5} \dots 1 \cdot 10^{-7}) \cdot f \text{ Hz}$	
			100 Hz ... 300 MHz	$(1 \cdot 10^{-7} \dots 6 \cdot 10^{-8}) \cdot f \text{ Hz}$	
Time (period)	EA.1.3		1 μs ... 10 s	$5 \cdot 10^{-9} \cdot T \text{ s}$	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (if applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
	2014-06-06	Electronic and digital frequency meters	3,3 ns ... 1 μs	$3 \cdot 10^{-8} \cdot T \text{ s}$	Alignment method. T – period measured, s
			3,3 ns ... 1 s	$1,4 \cdot 10^{-7} \cdot T \text{ s}$	Direct method
			(1 ... 10) s	$4 \cdot 10^{-5} \cdot T \text{ s}$	T – period measured, s
			200 ns ... 9 s	$4 \cdot 10^{-7} \cdot T \text{ s}$	Alignment method Impulse signal T – period measured, s
			200 ns ... 100 μs	$4 \cdot 10^{-7} \cdot T \text{ s}$	Direct method Impulse signal T – period measured, s
			100 μs ... 1s	$7 \cdot 10^{-6} \cdot \Delta T \text{ s}$	Alignment method
			(1 ... 10) s	$4 \cdot 10^{-7} \cdot \Delta T \text{ s}$	ΔT – interval measured, s
			(10 ... 10000) s	$10^{-8} \cdot \Delta T \text{ s}$	Direct method
Time (interval)	EA.1.3 2014-06-06	Electronic and digital frequency meters	(1 ... 10) s	7 μs	ΔT – interval measured, s
			(10 ... 10000) s	$10^{-6} \cdot \Delta T \text{ s}$	Direct method
			100 ns ... 10 ms	0,7 ns	ΔT – interval measured, s
			10 ms ... 1 s	$4 \cdot 10^{-7} \cdot \tau \text{ s}$	Alignment method
Time (pulse duration)			(1 ... 10) s	$10^{-8} \cdot \tau \text{ s}$	τ – duration measured, s
			100 ns ... 1 μs	0,02 ns	Direct method
Time (pulse duration)	EA.1.3 2014-06-06	Electronic and digital frequency meters	1 μs ... 10 ms	6,0 ns	
			0,1 Hz ... 300 MHz	$1 \cdot 10^{-9} \cdot f \text{ Hz}$	Stabilized frequency generators f – frequency measured, Hz
Frequency (time)	EA2.3 2014-06-06	Sine wave generators, frequency synthesisers, voltage calibrators		$1 \cdot 10^{-7} \cdot f \text{ Hz}$	LRC type generators
			3,3 ns ... 10 s	$1 \cdot 10^{-9} \cdot T \text{ s}$	Stabilized frequency generators T – period measured, s

Calibration and measurement capability (CMC), expressed as:						
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)		Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius						
					$1 \cdot 10^{-7} \cdot T \text{ s}$	LRC type generators
Frequency	EA2.3 2014-06-06	Sine wave generators, frequency synthesisers, voltage calibrators	5 MHz, 10 MHz		$1 \cdot 10^{-9} \cdot f \text{ Hz}$	Supporting stabilised frequency generators
Time (period)		Impulse generator	100 ns ...9 s		$6 \cdot 10^{-9} \cdot T \text{ s}$	Stabilize dfrequency generators T- period measured, s
					$1 \cdot 10^{-7} \cdot T \text{ s}$	LRC type generators
Time (interval)			100 ns ...10 s		$6 \cdot 10^{-9} \cdot \Delta T + 2 \text{ ns}$	ΔT – interval measured, s
			10 s ...10000 s		$6 \cdot 10^{-9} \cdot \Delta T \text{ s}$	
Time (pulse duration)			100 ns ...10 s		$6 \cdot 10^{-9} \cdot \tau + 2 \text{ ns}$	Stabilized frequency generators τ -duration measured, s
Voltage (vertical emissivity)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	1 mV/div. 2 mV/div. 5 mV/div. 10 mV/div. 20 mV/div. 50 mV/div. 100 mV/div. 200 mV/div. 500 mV/div. 1 V/div. 2 V/div. 5 V/div. 10 V/div.		5,3 % 3,6 % 0,7 % 1,0 % 1,1 % 1,5 % 1,2 % 1,1 % 1,7 % 1,3 % 1,1 % 1,9 % 1,4 %	Direct method
	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	1 mV/div	50 V/div.	0,2 %	Alignment method
Voltage (vertical emissivity)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Analog oscilloscopes	1 mV/div	50 V/div.	6 %	Direct method
Time (horizontal propagation coefficient)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	10 ns/div ...10 s/div		0,3 %	Direct method

Measured quantity	Reference number of calibration method or procedure	Calibration and measurement capability (CMC), expressed as:				Other parameters (If applicable)
		Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)		Measurement uncertainty	
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius						
Time (horizontal propagation coefficient)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	10 ns/div ...10 s/div		0,2 %	Alignment method
		Analog oscilloscopes	10 ns/div ...10 s/div		6 %	Direct method
Voltage (signal amplitude)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	8 mV ...80 V		0,3 %	-
		Analog oscilloscopes	8 mV ...80 V		6 %	
Time (time interval)		Digital oscillographs	100 ns ...10 s		0,2 %	
		Analog oscilloscopes	100 ns ...10 s		6 %	
Time (pulse duration)	EURAMET cg-7 v. 1.0 2011 EA4.3 2014-06-06	Digital oscillographs	100 ns ...1 s		$(0,002 \cdot \tau + 0,6 \cdot 10^{-9})$ s	τ – duration measured, s
		Analog oscilloscopes	100 ns ...1 s		6 %	
Speed	EA5.3 2015-01-10	Tachograph simulators	(10 ... 250) km/h		(0,00002 ...0,0006) km/h	-
Distance			1000 m		0,41 m	k = 2500 imp/km
			1000 m		0,13 m	k = 8000 imp/km
			1000 m		0,05 m	k = 24000 imp/km
			(-120 ... +120) s/day		0,12 s	-
Sound pressure level and frequency	LST EN IEC 60942:2018 AV4.3, 2022-09-27	Sound level calibrators	(94; 114; 124) dB (250; 1000) Hz		0,12 dB 2,8·10 ⁻⁵ - 0,004 f Hz	Reference microphones; f – frequency, Hz
Sound pressure level	LST EN 61672-1:2014 LST EN 61672-3:2014, except p. 11.1 AV3.3, 2022-09-27	Sound level meters	(94; 114; 124) dB At 1000 Hz 114 dB At 250 Hz		0,14 dB 0,12 dB	Reference calibrator 250Hz and 1000 Hz frequencies
Sound pressure level	LST EN 61672-1:2014 LST EN 61672-3:2014, except p. 11.1 AV3.3, 2022-09-27	Sound level meters	(30 ... 140) dB (20 ... 8000) Hz		0,18 dB	Comparison with a reference in a microphone pairing chamber (20 ... 8000) Hz
Vibration acceleration, speed, amplitude	ISO 8041-1:2017 AV2.3, 2022-09-27	Vibration measuring instruments	(0,1...100) m/s ²	5,012 Hz	2 %	-
			(0,3...300) mm/s	(10 ... 15,85) Hz	1,4 %	
			(1...3000) μm	(19,95...2000) Hz	1,2 %	
Sensor sensitivity	ISO 16063-21:2003 AV2.3, 2022-09-27	Vibration sensors	(0,5...10000) mV/m/s ²	5,012 Hz	1 %	-
				(10 ... 15,85) Hz	0,8 %	
				(19,95 ... 2000) Hz	0,7 %	
Vibration acceleration,	ISO 16063-44:2018 AV1.3, 2022-12-02	Vibration calibrators, stands, tables, platforms	(0,1...200) m/s ²	5,012 Hz	1,2 %	-
			(0,3...300) mm/s (1...3000) μm	(10...2000) Hz	0,8 %	

Calibration and measurement capability (CMC), expressed as:					
Measured quantity	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Other parameters (If applicable)
Vilnius Regional Laboratory, address: Dariaus ir Girėno str. 38, 02189 Vilnius					
speed, amplitude			(5,012...2000) Hz	5,012 Hz (10 ... 2000) Hz	2,9 % 0,006 %
DC resistance	E2.3 2012-11-05	Resistance measures	1 mΩ; 10 mΩ 0,1Ω; 1Ω; 10Ω; 100 Ω 1kΩ; 10 kΩ; 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ	$4 \cdot 10^{-6} \cdot R$ mΩ $4 \cdot 10^{-6} \cdot R$ Ω $4 \cdot 10^{-6} \cdot R$ kΩ $4 \cdot 10^{-6} \cdot R$ MΩ $10^{-4} \cdot R$ MΩ $3 \cdot 10^{-3}$ MΩ 10^{-4} GΩ	DC resistance
Power of individual dose equivalent $H_p(10)$	R2.3 (2024-12-04), LST EN ISO 4037-3:2019, LST EN ISO 29661:2018	Dosimeters for the power of individual dose equivalent	7e-6 Sv/h iki 11e-3 Sv/h (7mSv/h – 11mSv/h)	5,1%	-
Ambient dose equivalent power	R1-03 2025-03-10 ISO 4037-1:2019 ISO 4037-2:2019 ISO 4037-3:2019 LST EN 60846-1:2015	Ambient dose equivalent power meters	(1,9 ... 99,99) μSv/h d = 0,01 μSv/h (1,9 999,9) μSv/h d = 0,1 μSv/h (10 ... 9999) μSv/h d = 1 μSv/h (100 ... 10000) μSv/h d = 10 μSv/h (1,9 ... 99,99) μSv/h d = 0,01 μSv/h	5,1%	Direct measurement method R- meter reading, d- unit value

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Force	LST EN ISO 75001:2018, except p. 6.4.8, J2-02, 2024-01-16	Calibration of force testing machines using weights	From 0,1 N to 30 kN	0,012...0,074 %	
Force	LST EN ISO 75001:2018, except p. 6.4.8, J2-02, 2024-01-16	Calibration of force testing machines using dynamometers	(0,2...2) kN (2...5) kN (5...100) kN (100...1000) kN (300...,3000) kN 5,0 kN	(0,054...0,27)% (0,11...0,27)% (0,014...0,031)% (0,020...0,044)% (0,020...0,0453)% 0,031%	-

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Force	LST ISO 21069-2:2011 J2-04 2017-09-16	Vehicle brake testers	10 kN	0,024%	R – stand display, N
			15 kN	0,020%	
			20 kN	0,019%	
			25 kN	0,017%	
			30 kN	0,016%	
			35 kN	0,016%	
			40 kN	0,014%	
			45 kN	0,014%	
			50 kN	0,014%	
			100 kN	0,021%	
			150 kN	0,044%	
			200 kN	0,020%	
			250 kN	0,020%	
			300 kN	0,020%	
			400 kN	0,020%	
			500 kN	0,020%	
			600 kN	0,020%	
			700 kN	0,020%	
			800 kN	0,020%	
			900 kN	0,049 %	
			1200 kN	0,053%	
			1500 kN	0,052%	
			1800 kN	0,052%	
			2100 kN	0,052%	
			2400 kN	0,052%	
			2700 kN	0,052%	
			3000 kN	0,052%	
Force	LST ISO 21069-2:2011 J2-04 2017-09-16	Vehicle brake testers	(1 ... 40) kN	(3,6 + 0,00221·R) N	R – stand display, N
Volume	EURAMET/cg-19 v. 3.0 (09/2019) V2-03 2018-12-14		1 µl ... 200 ml	(0,0032+1,164·10 ⁻³ ·V) µl	V – volume, µl Uncertainty does not include scatter of readings
Volume	EURAMET/cg-19 v. 3.0 (09/2019) V2-03 2025-03-10	Volumetric glassware, Volume standards	0,5 ml 1 ml 2 ml 5 ml	0,0020 ml 0,0020 ml 0,0030 ml 0,0030 ml	-

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Volume	ISO 4269:2001 OIML R 71:2008 LST EN ISO 8222:2020 V2-05 2018-12-14	Fixed storage tanks using volume standard	10 ml	0,0070 ml	R-volume of a container
			20 ml	0,010 ml	
			50 ml	0,017 ml	
			100 ml	0,022 ml	
			200 ml	0,022 ml	
			250 ml	0,040 ml	
			500 ml	0,070 ml	
			1000 ml	0,12 ml	
			2000 ml	0,12 ml	
			5000 ml	0,26 ml	
			10000 ml	0,50 ml	
			20000 ml	1,1 ml	
			50000 ml	2,0 ml	
			100000 ml	19,1 ml	
			200000 ml	21,1 ml	
Volume	ISO 4269:2001 OIML R 71:2008	Fixed storage tanks using volume standard	(0,01...20) m ³	(0,15·10 ⁻⁴ +4,26·10 ⁻⁴ ·R) m ³	R-volume of a container
Volume	LST EN ISO 8222:2020 V2-05 2018-12-14	Fixed storage tanks—using water meter	(1...200) m3	(0,0034+7,33·10 ⁻⁴ ·R) m3	
Mass	EURAMET/cg-18 v. 4.0 (11/2015) M2-02 2018-12-16	Non-automatic weighing instruments	Calibrated with weights		R- scale reading
			E2 kl.		
			from 1 mg to 20 kg	(0,0036+9,4·10 ⁻⁴ ·R) mg	R, g
			F1 kl.		
			from 1 mg to 40 kg	(0,013+3,0·10 ⁻³ ·R) mg	
			F2 kl.		
			from 1 kg to 1 t	(0,0092+8,8·10 ⁻⁶ ·R) g	
			M1 kl.		
			from 1 g to 3 t	(0,00032+3,5·10 ⁻⁵ ·R) kg	R, kg
			from 3 t to 20 t	(0,11+3,5·10 ⁻⁵ ·R) kg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights F1 accuracy class	(1... 20) mg	0,0030 mg	
			50 mg, 100 mg 200mg, 500mg	0,0050 mg	
			1 g, 2 g	0,0060 mg	
			5 g	0,011 mg	
			10 g	0,016 mg	
			20 g	0,020 mg	
			50 g	0,021 mg	
			100 g	0,13 mg	
			200 g	0,14 mg	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights F2 accuracy class and weights	500 g	0,16 mg	
			1 kg	0,35 mg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights F2 accuracy class and weights	2 kg	1,5 mg	
			5 kg	1,9 mg	
			10 kg	3,6 mg	
			20 kg	5,7 mg	
				8,9 mg	
			(1 ... 10) mg	0,0060 mg	
			(20...100) mg	0,010 mg	
			200 mg, 500 mg	0,020 mg	
			1 g, 2 g	0,011 mg	
			5 g	0,016 mg	
			10 g, 20 g	0,020 mg	
			50 g, 100 g	0,14 mg	
			200 g	0,17 mg	
			500 g	0,35 mg	
			1 kg	2,0 mg	
			2 kg, 5 kg	11,0 mg	
			10 kg	51,0 mg	
			20 kg	55,0 mg	
			50 kg	63,0 mg	
Mass	OIML R111-1: 2004 M2-01 2018-12-14	Weights M1 accuracy class and weights	(1...500) mg	0,022 mg	
			1 g	0,020 mg	
			2 g	0,040 mg	
			(5...20) g	0,050 mg	
			50 g	0,17 mg	
			100 g	0,20 mg	
			200 g	1,7 mg	
			500 g	2,1 mg	
			1 kg	2,6 mg	
			2 kg	13 mg	
			5 kg	14 mg	
			10 kg	77 mg	
			20 kg	83 mg	
			50 kg	110 mg	
Pressure	EURAMET/cg-3 v. 1.0 (03/2011) EURAMET/cg-17 v.4.0 (04/2019) S2-02	Barometers	(80 ... 109,9) kPa	± 0,02 kPa	p – pressure value at the calibration point

Calibration and measurement capability (CMC) expressed as:								
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand			
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas								
Pressure	2022-09-27	Tyre pressure measuring instruments	(0 ... 1400) kPa	0,60 kPa	p – pressure value at the calibration point			
	LST EN 12645-2014 86/217EEB EURAMET/cg-3 v. 1.0 (03/2011) EURAMET/cg-17 v.4.0 (04/2019) S2-02 2022-09-27							
Pressure	EURAMET/cg-3 v. 1.0 (03/2011) EURAMET/cg-17 v.4.0 (04/2019) S2-02 2025-05-09	Electromechanical and mechanical manometers	(0 ... 2500) Pa	$(-8,2 \cdot 10^{-8} \cdot p^2 + 3,6 \cdot 10^{-4} \cdot p + 0,18)$ Pa	p – pressure value at the calibration point			
			(0 ... -90) kPa	19 Pa				
			(2,5 ... 250) kPa	$(-2,6 \cdot 10^{-10} \cdot p^2 + 1,4 \cdot 10^{-4} \cdot p + 8,6)$ Pa				
			(250 ... 14000) kPa	$(3,2 \cdot 10^{-10} \cdot p^2 + 2,5 \cdot 10^{-2} \cdot p + 110000)$ Pa				
			(14000 ... 60000) kPa	$(-4 \cdot 10^{-14} \cdot p^2 + 7,2 \cdot 10^{-6} \cdot p - 17000)$ Pa				
Temperature	LST EN 60068-3-11:2007 T2-04 2019-01-16	Climatic chambers	(-30 ... 300) °C	0,35 °C	-			
Temperature	LST EN 285:2015+A1:2021 LST EN 13060:2014+A1:2019 T2-05 2022-09-27	Heating ovens, drying cabinets, sterilisers	(20 ... 300) °C	0,35 °C	-			
			20 °C					
	T2-06 2019-01-26	Thermostatic baths	(10 ... 95) °C	0,063 °C				
						T2-08 2025-05-09	Pyrometers	(-30 ... 150) °C
								-30
	0	0,40 °C						
	30	0,33 °C						
	50	0,21 °C						
	150	0,35 °C						
Temperature	ISO 386:1997	Liquid-in-glass thermometers	(-60 ... 300) °C	0,016 °C 0,016 °C 0,006 °C	-			
	LST EN 1770:2002		-60 °C					
	LST EN 1771:2004		-38,83 °C					
	OIML R 133:2002		0,01 °C					

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Temperature	T2-01 2025-05-09	Digital thermometers	29,76 °C 231,928 °C 300 °C	0,016 °C 0,019 °C 0,023 °C	-
	LST EN 13485:2024 T2-02 2025-05-09		(-60 ... 300) °C -60 °C -38,83 °C 0,01 °C 29,76 °C 231,928 °C 300 °C	0,016 °C 0,016 °C 0,006 °C 0,016 °C 0,019 °C 0,023 °C	
Humidity	T2-10 2019-01-24	Relative humidity and temperature meters	(5,0 ... 35) % (35 ... 95) % (-30 ... 70) °C	(1,18 + 0,0014·φ) % (1,12 + 0,0032·φ) % 0,12 °C	φ – humidity at the measured point
Length	G2-03 2017-08-14	Sieves: -Netting (silk, man-made fibres, twisted yarns, metal wires) - perforated metal sheet; - rods; - grain.	Mesh dimensions (0,02 ... 125) mm	1,2 μm	Uncertainty does not include the contribution of the best sieve uncertainty
Length	G2-05, 2022-09-27	Calliper, depth gauges	To 2000 mm Value of the division 0,01 mm 0,02 mm 0,05 mm 0,1 mm	0,013 mm 0,026 mm 0,065 mm 0,13 mm	
Length	G2-02 2017-08-14	Micrometric measuring instruments	To 1000 mm Value of the division 10 μm 1 μm 0,5 μm 0,2 μm 0,1 μm	5,8 μm 0,58 μm 0,29 μm 0,13 μm 0,078 μm	
Length	G2-04 2017-08-14	Indicators	Indicator heads up to 200 mm Indicator gauges up to 320 mm Value of the division 100 μm 10 μm 1 μm 0,5 μm	57,7 μm 5,8 μm 0,58 μm 0,3 μm 0,14 μm	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Length	G2-01 2017-08-14	Gauge block and their accessories	0,2 µm	0,099 µm	
			0,1 µm	0,085 µm	
			0,05 µm	0,081 µm	
			0,02 µm	0,080 µm	
			0,01 µm		
			(0,3 ... 0,9) mm	0,106 µm	step 0,1 mm
			0,5 mm	0,084 µm	-
			(0,991 ... 0,999) mm	0,085 µm	Step 0,001mm
			(1,001 ... 1,009) mm	0,083 µm	step 0,001mm
			1,005 mm; (1 ... 1,49) mm	0,085 µm	step 0,01 mm
			(1,5 ... 1,8) mm	0,085 µm	step 0,1 mm
			1,9; 2; 2,5 mm	0,086 µm	-
			3; 3,5 mm	0,087 µm	
			4 mm	0,088 µm	
			4,5; 5 mm	0,089 µm	
			5,5; 6 mm	0,090 µm	
			6,5; 7 mm	0,091 µm	
			7,5 mm	0,092 µm	
			8; 8,5 mm	0,093 µm	
			9; 9,5 mm	0,094 µm	
			10 mm	0,095 µm	
			20 mm	0,106 µm	
			30 mm	0,118 µm	
			40 mm	0,130 µm	
			50 mm	0,142 µm	
			60 mm	0,155 µm	
			70 mm	0,167 µm	
			80 mm	0,179 µm	
			90 mm	0,192 µm	
			100 mm	0,204 µm	
			5,12 mm	0,115 µm	
Length	G2-01 2017-08-14	Gauge block and their accessories	10,24 mm	0,120 µm	-
			15,36 mm	0,125 µm	
			21,2 mm	0,104 µm	
			21,5 mm	0,131 µm	
			25 mm	0,134 µm	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Length	G2-01 2017-08-14	Gauge block and their accessories	30,12 mm	0,142 μm	-
			35,24 mm	0,148 μm	
			40,36 mm	0,157 μm	
			46,5 mm	0,169 μm	
			50 mm	0,168 μm	
			51,4 mm	0,138 μm	
			55,12 mm	0,184 μm	
			60,24 mm	0,191 μm	
			65,36 mm	0,200 μm	
			71,5 mm	0,204 μm	
			75 mm	0,163 μm	
			80,12 mm	0,220 μm	
			85,24 mm	0,229 μm	
			90,36 mm	0,233 μm	
			96,5 mm	0,247 μm	
			100 mm	0,253 μm	
			50 mm	0,210 μm	
			100 mm	0,260 μm	
			101,6 mm	0,202 μm	
			126,8 mm	0,236 μm	
			150 mm	0,269 μm	
			200 mm	1,467 μm	
			300 mm	1,958 μm	
			400 mm	2,452 μm	
			500 mm	2,946 μm	
			600 mm	3,470 μm	
			700 mm	3,962 μm	
			800 mm	4,454 μm	
			900 mm	4,948 μm	
			1000 mm	5,441 μm	
Length	G2-06 2017-08-14	Measures of length, tape measures, rulers, measuring tapes, distance and height measuring instruments	To 200 mm (unit value 0,0001 mm)	1,6 μm	L - Length, m
			From 1 m to 200 m (unit value 0,2 mm)	0,1564·L+0,4870 mm	
			To 10 m (unit value 1,0 mm)	0,707 mm	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Length	G2-13 2018-12-12	Feeler gauges	From 10 m to 200 m (unit value 1,0 mm)	$0,0002 \cdot L^2 + 0,0177 \cdot L + 0,4178$	-
			(0,01 ... 2,0) mm	0,12 μm	
Length	G2-14 2018-12-10	Optimeters	(0 ... 500) mm	0,18 μm	-
			(scale $\pm 100 \mu\text{m}$)		
Length	G2-11 2018-12-13	Microscopes	(0 ... 1000) mm, unit value	-	-
			0,1 μm	$(0,19 + 0,00238 \cdot L) \mu\text{m}$	
			1 μm	$(0,61 + 0,00203 \cdot L) \mu\text{m}$	
			10 μm	$(5,8 + 0,0005 \cdot L) \mu\text{m}$	
			50 μm	$(28,9...29,6) \mu\text{m}$	
			100 μm	$(57,7...58,1) \mu\text{m}$	
Length	G2-12 2018-12-11	weld seam gauges	(0 ... 100) mm, unit value	-	-
			0,01 mm	5,8 μm	
			0,1 mm	58 μm	
			1 mm	578 μm	
			without scale	2,1 μm	
Length	G2-15 2018-12-12	Thickness measuring instruments	(0 ... 635) mm		-
			unit value 100 μm	57,7 μm	
			10 μm	5,8 μm	
			1 μm	0,58 μm	
			0,1 μm	0,099 μm	
			Thickness references	0,12 μm	
Length	G2-16 2018-12-12	Plug gauges	0,1 mm	0,098 μm	-
			1 mm	0,097 μm	
			100 mm	0,21 μm	
			1000 mm	5,30 μm	
	G2-17 2018-12-12	Level	For spirit levels without scale to 2000 mm	0,0061 mm/m	-
			Unit value	-	
			0,005 mm/m mm/m	$(0,0061...0,008) \text{ mm/m}$	
			0,0125 mm/m	$(0,01...0,015) \text{ mm/m}$	
			0,025 mm/m	$(0,016...0,029) \text{ mm/m}$	
Length	G2-18 2021-09-20	Log imitators	diameter (100 ... 400) mm,	0,067 mm	-
			Length ≥ 1000 mm	0,12 mm	
Length	G2-19	Dimensions of parts	(1...100) mm	$(1,4 \dots 3,0) \mu\text{m}$	
			(100...200) mm	$(3,0 \dots 5,8) \mu\text{m}$	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
	2023-01-09		(200...300) mm	(5,8 ... 8,5) μm	
			(300...400) mm	(8,5... 11,2) μm	
			(400...500) mm	(11,2 ... 14,0) μm	
			(500...600) mm	(14,0...16,6) μm	
			(600...700) mm	(16,6... 19,3) μm	
			(700...800) mm	(19,3... 22,0) μm	
			(800...900) mm	(22...25) μm	
			(900...1650) mm	(0,025 ... 0,4) mm	
Surface flatness	G2-20 2018-12-12	Scribing gauge Glass plates and other local surfaces	to 300mm ~ 50mm	1,15 μm 0,023 μm	-
Surface flatness	G2-20 2018-12-12	For surface flatness and straightness	From 10 mm	1,16 μm	
Angle	G2-10 2018-12-10	Angle gauge and building angle gauges	(10 ... 100) °	$\pm 3,3 \mu\text{m}$ $\pm 2,6 "$	
Angle	G2-09 2018-12-14	Protractors	(0 ... 360)° Angle gauge unit value	(0 ... 360)° Angle gauge unit value	-
			0,167 '	0,167 '	
			0,6 '	0,6 '	
			2 '	2 '	
			3 '	3 '	
			5 '	5 '	
			10 '	10 '	
			15 '	15 '	
			30 '	30 '	
			60 '	60 '	
			(0 ... 360) ° unit value	-	
			0,5 '	0,29 '	
			1 '	0,58 '	
			10 '	5,77 '	
			30 '	17,32 '	
			60 '	34,64 '	
Angle	G2-11 2018-12-13	Microscopes	(0 ... 360) ° unit value	-	-
			0,5 °	0,29 °	
			1 °	0,58 °	
			5 °	2,89 °	
			10°	5,77°	
			(0 ... 360) ° unit value	-	
			0,5 °	0,29 °	
		weld seam gauges	1 °	0,58 °	
			5 °	2,89 °	
			10°	5,77°	
			(0 ... 360) ° unit value	-	

Calibration and measurement capability (CMC) expressed as:									
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand				
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas									
DC voltage	EURAMET cg-15 v.3.0 2015 –for digital measuring Instruments only KM E 2012 30, 2016-05-03	Digital and Analog multimeters	For an unscaled angle	0,022 °	U-voltage value at the calibration point				
			(0,000 ... 202,000) mV	$(2,31 \cdot 10^{-3} + 1,73 \cdot 10^{-5} \cdot U)$ mV					
	EURAMET cg-15 v.3.0 2015 –for digital measuring Instruments only KM E 2012 30, 2016-05-03	Digital and Analog multimeters	(0,20 ... 2,02)V	$(7,61 \cdot 10^{-6} + 8,39 \cdot 10^{-6} \cdot U)$ V	U-voltage value at the calibration point				
			(2,02 ... 20,20) V	$(4,62 \cdot 10^{-5} + 8,32 \cdot 10^{-6} \cdot U)$ V					
			(20,00 ... 200,000) V	$(5,54 \cdot 10^{-4} + 1,25 \cdot 10^{-5} \cdot U)$ V					
			(200,000 ... 1025,00) V	$(5,54 \cdot 10^{-3} + 1,12 \cdot 10^{-5} \cdot U)$ V					
		Digital and Analog multimeters	(0,000 ... 202,00) mV						
			45 Hz ... 999 Hz	$(1,73 \cdot 10^{-2} + 1,85 \cdot 10^{-4} \cdot U)$ mV					
			(0,20 ... 2,02) V						
			45 Hz ... 999 Hz	$(1,73 \cdot 10^{-4} + 1,66 \cdot 10^{-4} \cdot U)$ V					
			(2,00 ... 20,20) V						
			45 Hz ... 999 Hz	$(1,52 \cdot 10^{-3} + 1,66 \cdot 10^{-4} \cdot U)$ V					
			(20,00 ... 200,00) V						
			45 Hz ... 999 Hz	$(1,73 \cdot 10^{-2} + 1,56 \cdot 10^{-4} \cdot U)$ V					
			(200,00 ... 1020,0) V						
			45 Hz ... 999 Hz	$(1,15 \cdot 10^{-1} + 1,86 \cdot 10^{-4} \cdot U)$ V					
DC current	EURAMET cg-15 v.3.0 2015 –for digital measuring Instruments only KM E 2012 30 2016-05-03	Digital and Analog multimeters	(0,000 ... 202,000) µA	$(1,15 \cdot 10^{-2} + 1,15 \cdot 10^{-4} \cdot I)$ µA	I-current value at the calibration point				
			(0,2000 ... 2,020) mA	$(1,50 \cdot 10^{-5} + 5,20 \cdot 10^{-5} \cdot I)$ mA					
			(2,00 ... 20,200) mA	$(3,46 \cdot 10^{-4} + 5,20 \cdot 10^{-5} \cdot I)$ mA					
			(20,000 ... 200,000) mA	$(3,46 \cdot 10^{-3} + 5,20 \cdot 10^{-5} \cdot I)$ mA					
			(0,200 ... 2,0200) A	$(6,47 \cdot 10^{-5} + 1,35 \cdot 10^{-4} \cdot I)$ A					
			(2,02 ... 20,200) A	$(1,04 \cdot 10^{-3} + 3,12 \cdot 10^{-4} \cdot I)$ A					
			(20,20 ... 30,00) A	$(1,22 \cdot 10^{-2} + 1,89 \cdot 10^{-4} \cdot I)$ A					
			(20,000 ... 202,000) µA						
			AC current			Digital and Analog multimeters	45 Hz ... 999 Hz	$(1,89 \cdot 10^{-1} + 7,28 \cdot 10^{-4} \cdot I)$ µA	
							(0,200 ... 2,020) mA		
45 Hz ... 999 Hz	$(3,70 \cdot 10^{-4} + 6,24 \cdot 10^{-4} \cdot I)$ mA								
(2,000 ... 20,200) mA									
45 Hz ... 999 Hz	$(3,23 \cdot 10^{-3} + 4,16 \cdot 10^{-4} \cdot I)$ mA								
(20,00 ... 202,00) mA									
45 Hz ... 999 Hz	$(3,23 \cdot 10^{-2} + 4,16 \cdot 10^{-4} \cdot I)$ mA								
(0,200 ... 2,02) A									
45 Hz ... 999 Hz	$(3,70 \cdot 10^{-4} + 6,24 \cdot 10^{-4} \cdot I)$ A								
(2,00 ... 30,000) A									
45 Hz ... 999 Hz	$(4,16 \cdot 10^{-3} + 8,62 \cdot 10^{-4} \cdot I)$ A								

Calibration and measurement capability (CMC) expressed as:						
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand	
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas						
Resistance	EURAMET cg-15 v.3.0 2015 – for digital measuring Instruments only KM E 2012 30 2016-05-03	Digital and Analog multimeters	0,1 Ω	5,78·10 ⁻³ Ω	-	
			1 Ω	5,80·10 ⁻³ Ω		
			10 Ω	6,06·10 ⁻³ Ω		
			100 Ω	7,85·10 ⁻³ Ω		
			1 k Ω	2,66·10 ⁻⁵ kΩ		
			10 kΩ	1,50·10 ⁻⁴ kΩ		
			100 kΩ	2,66·10 ⁻³ kΩ		
			1 MΩ	2,94·10 ⁻⁵ MΩ		
			10 MΩ	1,15·10 ⁻³ MΩ		
			100 MΩ	2,10·10 ⁻¹ MΩ		
			1000 MΩ	11,6 MΩ		
			0,1 Ω	5,78·10 ⁻³ Ω		
			1 Ω	5,80·10 ⁻³ Ω		
			10 Ω	6,06·10 ⁻³ Ω		
			100 Ω	7,85·10 ⁻³ Ω		
			1 k Ω	2,66·10 ⁻⁵ kΩ		
			10 kΩ	1,50·10 ⁻⁴ kΩ		
Resistance	EURAMET cg-15 v.3.0 2015 – for digital measuring Instruments only KM E 2012 30, 2016-05-03	Digital and Analog multimeters	(0 ... 10) MΩ	(5,77·10 ⁻⁹ + 12·10 ⁻⁵ ·R) Ω	R- resistance value at the point to be calibrated	
Electrical capacity		Digital and Analog multimeters	1 nF	4,04·10 ⁻³ nF	-	
			10 nF	4,04·10 ⁻² nF		
			20 nF	8,08·10 ⁻² nF		
			50 nF	2,02·10 ⁻¹ nF		
			100 nF	4,04·10 ⁻¹ nF		
			1 μF	6,77·10 ⁻³ μF		
			10μF	9,70·10 ⁻² μF		
			100 μF	9,70·10 ⁻¹ μF		
			1 mF	1,62·10 ⁻² mF		
			10 mF	1,62·10 ⁻¹ mF		
			350 Hz ... 1,5 kHz			
			(0,5 ... 4,0) nF	(3,81·10 ⁻² + 6,01·10 ⁻³ ·C) nF		C- the value of the capacitance at the calibration point
			(4,0001 ... 40,000) nF	(9,70·10 ⁻² + 6,24·10 ⁻³ ·C) nF		
			(40,001 ... 400,00) nF	(6,47·10 ⁻¹ + 6,24·10 ⁻³ ·C) nF		
			400,01 nF ... 4,0000 μF	(7,39·10 ⁻³ + 8,31·10 ⁻³ ·C) μF		
			(4,0001 ... 40,000) μF	(8,31·10 ⁻² + 1,04·10 ⁻² ·C) μF		
			(40,001 ... 400,00) μF	(8,31·10 ⁻¹ + 1,04·10 ⁻² ·C) μF		
400,01 μF ... 4,0000 mF	(4,16·10 ⁻² + 1,04·10 ⁻² ·C) mF					

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Inductance	EURAMET cg-15 v.3.0 2015 – for digital measuring Instruments only KM E 2012 30 2016-05-03		(4,0001 ... 40,000) mF	$(2,31 \cdot 10^{-1} + 2,08 \cdot 10^{-2} \cdot C)$ mF	-
			1 mH	$8,08 \cdot 10^{-3}$ mH	
			10 mH	$8,08 \cdot 10^{-2}$ mH	
			19 mH	$1,54 \cdot 10^{-1}$ mH	
			29 mH	$2,34 \cdot 10^{-1}$ mH	
			50 mH	$4,04 \cdot 10^{-1}$ mH	
			100 mH	$8,08 \cdot 10^{-1}$ mH	
			1 H	$8,08 \cdot 10^{-3}$ H	
			10 H	$8,08 \cdot 10^{-2}$ H	
Frequency			1 Hz ... 10 MHz	$(2,31 \cdot 10^{-5} + 2,31 \cdot 10^{-5} \cdot f)$ Hz	f – frequency
DC voltage	KM E 2012 31, 2016-05-03	Voltage sources (calibrators)	(0 ... 100) mV	$(3,46 \cdot 10^{-4} + 1,15 \cdot 10^{-5} \cdot U)$ mV	U-voltage value at the calibration point
			(0 ... 1) V	$(6,73 \cdot 10^{-7} + 1,12 \cdot 10^{-5} \cdot U)$ V	
			(0 ... 10) V	$(8,16 \cdot 10^{-7} + 1,15 \cdot 10^{-5} \cdot U)$ V	
			(0 ... 100) V	$(3,46 \cdot 10^{-5} + 1,15 \cdot 10^{-5} \cdot U)$ V	
			(0 ... 1000) V	$(1,15 \cdot 10^{-4} + 1,15 \cdot 10^{-5} \cdot U)$ V	
AC voltage			(0 ... 10) mV		
			40 Hz ... 1 kHz	$(1,27 \cdot 10^{-3} + 2,31 \cdot 10^{-4} \cdot U)$ mV	
			(0 ... 100) mV		
			40 Hz ... 1 kHz	$(2,31 \cdot 10^{-3} + 8,08 \cdot 10^{-5} \cdot U)$ mV	
			(0 ... 1) V		
			40 Hz ... 1 kHz	$(2,31 \cdot 10^{-5} + 8,08 \cdot 10^{-5} \cdot U)$ V	
			(0 ... 10) V		
			40 Hz ... 1 kHz	$(2,31 \cdot 10^{-4} + 8,08 \cdot 10^{-5} \cdot U)$ V	
			(0 ... 100) V		
			40 Hz ... 1 kHz	$(2,31 \cdot 10^{-3} + 2,31 \cdot 10^{-4} \cdot U)$ V	
AC amperage			(0 ... 1000) V		
			40 Hz ... 1 kHz	$(2,31 \cdot 10^{-2} + 4,62 \cdot 10^{-4} \cdot U)$ V	
			(0 ... 100) nA	$(4,62 \cdot 10^{-2} + 4,04 \cdot 10^{-5} \cdot I)$ nA	
			(0 ... 1) μA	$(4,62 \cdot 10^{-5} + 2,89 \cdot 10^{-5} \cdot I)$ μA	
			(0 ... 10) μA	$(1,15 \cdot 10^{-4} + 2,89 \cdot 10^{-5} \cdot I)$ μA	
			(0 ... 100) μA	$(9,24 \cdot 10^{-4} + 2,89 \cdot 10^{-5} \cdot I)$ μA	
			(0 ... 1) mA	$(5,80 \cdot 10^{-6} + 2,88 \cdot 10^{-5} \cdot I)$ mA	
			(0 ... 10) mA	$(5,77 \cdot 10^{-5} + 2,89 \cdot 10^{-5} \cdot I)$ mA	
			(0 ... 100) mA	$(5,77 \cdot 10^{-4} + 4,62 \cdot 10^{-5} \cdot I)$ mA	
			(0 ... 1) A	$(1,16 \cdot 10^{-5} + 1,33 \cdot 10^{-4} \cdot I)$ A	
AC amperage			(0 ... 3) A	$(6,93 \cdot 10^{-4} + 1,16 \cdot 10^{-3} \cdot I)$ A	I- value of the current at the point to be calibrated
			(0 ... 10) A	$(9,24 \cdot 10^{-4} + 1,73 \cdot 10^{-3} \cdot I)$ A	
			(0 ... 100) μA		

Calibration and measurement capability (CMC) expressed as:							
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand		
Kaunas regional laboratory, address: S. Raštikio str. 26, 50130 Kaunas							
Resistance	KM E 2012 31, 2016-05-03	Current sources (calibrators)	45 Hz ... 5 kHz (0 ... 100) mA	$(3,46 \cdot 10^{-2} + 6,93 \cdot 10^{-4} \cdot I) \mu A$	R- resistance value at the point to be calibrated		
			45 Hz ... 100 Hz	$(2,31 \cdot 10^{-2} + 6,93 \cdot 10^{-4} \cdot I) \text{ mA}$			
			100 Hz ... 5 kHz (0 ... 1) A	$(2,31 \cdot 10^{-2} + 3,46 \cdot 10^{-4} \cdot I) \text{ mA}$			
			45 Hz ... 100 Hz	$(2,31 \cdot 10^{-4} + 9,24 \cdot 10^{-4} \cdot I) \text{ A}$			
			100 Hz ... 5 kHz (0 ... 3) A	$(2,31 \cdot 10^{-4} + 1,15 \cdot 10^{-3} \cdot I) \text{ A}$			
			10 Hz ... 5 kHz (0 ... 10) A	$(2,08 \cdot 10^{-3} + 1,73 \cdot 10^{-3} \cdot I) \text{ A}$			
			10 Hz ... 5 kHz	$(6,93 \cdot 10^{-3} + 1,73 \cdot 10^{-3} \cdot I) \text{ A}$			
			Resistance measure and Decade resistance box	(0 ... 10) Ω		$(1,15 \cdot 10^{-4} + 1,15 \cdot 10^{-5} \cdot R) \Omega$	
				(0 ... 100) Ω		$(1,15 \cdot 10^{-3} + 1,15 \cdot 10^{-5} \cdot R) \Omega$	
		(0 ... 1) kΩ		$(1,29 \cdot 10^{-6} + 1,60 \cdot 10^{-5} \cdot R) \text{ k}\Omega$			
		(0 ... 10) kΩ		$(1,16 \cdot 10^{-5} + 1,62 \cdot 10^{-5} \cdot R) \text{ k}\Omega$			
		(0 ... 100) kΩ		$(1,15 \cdot 10^{-4} + 1,62 \cdot 10^{-5} \cdot R) \text{ k}\Omega$			
		(0 ... 1) MΩ		$(4,65 \cdot 10^{-6} + 1,84 \cdot 10^{-5} \cdot R) \text{ M}\Omega$			
		(0 ... 10) MΩ		$(1,15 \cdot 10^{-4} + 7,51 \cdot 10^{-5} \cdot R) \text{ M}\Omega$			
		(0 ... 100) MΩ		$(1,15 \cdot 10^{-3} + 1,15 \cdot 10^{-3} \cdot R) \text{ M}\Omega$			
		(0 ... 1) GΩ		$(1,16 \cdot 10^{-5} + 1,15 \cdot 10^{-2} \cdot R) \text{ G}\Omega$			
		Frequency	Operational calibrators	1 Hz ... 40 Hz		$(5,77 \cdot 10^{-4} + 5,63 \cdot 10^{-4} \cdot f) \text{ Hz}$	f-frequency value at the point to be calibrated
				40 Hz ... 100 MHz		$(4,62 \cdot 10^{-3} + 1,15 \cdot 10^{-4} \cdot f) \text{ Hz}$	
		Duration of time	KM E 2012 32 2012-04	Mechanical and digital timers (manual-start)	3 s - 9999,99 s	$(1,3 \cdot 10^{-2} + 2,30 \cdot 10^{-5} \cdot T) \text{ s}$	T- time value at the calibration point
	5 s – 400000 s			$(2,31 \cdot 10^{-2} + 1,15 \cdot 10^{-6} \cdot T) \text{ s}$			
Mechanical and digital timers (auto-start)	0,00020 s – 400000 s			$(6,03 \cdot 10^{-6} + 1,15 \cdot 10^{-6} \cdot T) \text{ s}$			
Concentration of hydrogen ions H+ in solution. Oxidation reduction potential evj.	FC2-01 2019-02-28	pH meters	At 25 °C	At 25 °C	Calibration with buffer solutions		
			2,00 pH	0,0081 pH			
			4,00 pH	0,0093 pH			
			7,00 pH	0,0254 pH			
			10,00 pH	0,0577 pH			
			At 20 °C	At 20 °C			
			2,00 pH	0,0061 pH			
			4,00 pH				
			7,00 pH				
			10,00 pH				
			(-500,0 ... 500,0) mV	8,16 · 10 ⁻² mV			

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
			(500,1 ... 1999,90) mV	(1,04·10 ⁻¹ +3,92·10 ⁻⁵ ·U) mV	Calibrating with a simulator U- voltage value at the calibration point
Optical transmittance and optical absorption	FC2-05 2019-02-27	Spectrophotometers	241,6 nm, (287,5...418,7) nm, (513,4...573) nm	0,17 nm	-
			279,36 nm, 453,62 nm, 585,16 nm, 637,68 nm, 807,08 nm	0,18 nm	
			741,14 nm	0,189 nm	
			684,5 nm	0,199 nm	
			When absorption:		
			(0,0406 ... 0,0419) A	0,0026A	
			(0,1392 ... 0,1539) A	0,0028A	
			(0,2207 ... 0,2522) A	0,0029A	
			(0,4915 ... 0,5259) A	0,0033A	
			(0,9230 ... 0,9898) A	0,0042A	
Light refractive index	FC2-09 2019-01-09	Refractometers	(1,4196 ... 1,5646) A	0,0078A	-
			(1,8949 ... 2,0915) A	0,0201A	
			nD=(1,33 ... 1,65)	6,5·10 ⁻⁵	
			Calibration with reference materials		
			nD=1,33...		
			(0 Brix %) nD=1,40...		
			(42 Brix %) nD=1,45...		
			(64 Brix %) nD=1,47...		
			(74 Brix %) nD=1,56...		
			Calibration with glass refractive index standards		
Angle of rotation of the polarisation plane	FC2-08 2019-02-28	Polarimeters	nD=1,47...		
			nD=1,53...		
			nD=1,61...		
			nD=1,65...		
			nD=1,53...		
			nD=1,61...		
			nD=1,65...		
Angle of rotation of the polarisation plane	FC2-08 2019-02-28	Polarimeters	34 °	0,0012°	
			99°Z	0,0066°Z	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Kaunas regional laboratory, address: S.Raštikio str. 26, 50130 Kaunas					
Dissolved oxygen concentration in water	FC2-03 2019-02-27	Oximeters	(0 ... 20) mg/l	At 15 °C 0,015 mg/l At 20 °C 0,012 mg/l At 25 °C 0,011 mg/l	
Electrical conductivity of liquids	FC2-02 2019-02-28	Conductometers	1,30 µS/cm 4,98 µS/cm 84 µS/cm 1413 µS/cm 5000 µS/cm 12880 µS/cm	0,014 µS/cm 0,05 µS/cm 0,80 µS/cm 5,03 µS/cm 20,01 µS/cm 50,00 µS/cm	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Klaipėda regional laboratory, address Liepų str. 54 K4, 92106 Klaipėda					
Mass	OIML R111-1:2004 M2-01 2018-12-14	F1 class Weights	10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g	0,0084 mg 0,0087mg 0,0091 mg 0,0096 mg 0,0101 mg 0,0114 mg 0,013 mg 0,015 mg 0,017 mg 0,022 mg 0,026 mg 0,031 mg 0,051 mg 0,10 mg 0,85 mg	-

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Klaipėda regional laboratory, address Liepų str. 54 K4, 92106 Klaipėda					
Mass	OIML R111-1:2004 M2-01 2018-12-14	F2 class Weights and other weights	1 kg	0,96 mg	-
			10 mg	0,013 mg	
			20 mg	0,013 mg	
			50 mg	0,015 mg	
			100 mg	0,017 mg	
			200 mg	0,022 mg	
			500 mg	0,026 mg	
			1 g	0,031 mg	
			2 g	0,041 mg	
			5 g	0,051 mg	
			10 g	0,061 mg	
			20 g	0,080 mg	
			50 g	0,10 mg	
			100 g	0,16 mg	
			200 g	0,30 mg	
			500 g	1,14 mg	
			1 kg	1,7 mg	
			2 kg	3,1 mg	
			5 kg	7,5 mg	
			10 kg	16 mg	
			20 kg	30 mg	
Mass	OIML R111-1:2004 M2-01 2018-12-14	M1, M2, M3 class Weights and other weights	10 mg	0,026 mg	-
			20 mg	0,031mg	
			50 mg	0,041 mg	
			100 mg	0,051 mg	
			200 mg	0,061 mg	
			500 mg	0,080 mg	
			1 g	0,10 mg	
			2 g	0,12 mg	
			5 g	0,16 mg	
			10 g	0,20 mg	
			20 g	0,25 mg	
			50 g	0,30 mg	
			100 g	0,50 mg	
			200 g	1,0 mg	
			500 g	2,6 mg	
			1 kg	5,1 mg	
			2 kg	10,0 mg	
			5 kg	25,0 mg	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Klaipėda regional laboratory, address Liepų str. 54 K4, 92106 Klaipėda					
Mass	EURAMET/cg-18 v. 4.0 (11/2015) M2-02 2018-12-16	Non-automatic weighing instruments	10 kg	50 mg	R - scale display, g
			20 kg	100 mg	
			Calibrated with weights E2 accuracy class From 10 mg to 2,22 kg	$(0,0044+9,7 \cdot 10^{-4} \cdot R)$ mg	
			F1 t. accuracy class From 10 mg to 50 kg F2 t. accuracy class From 0,01 g to 300 kg	$(0,016+2,9 \cdot 10^{-3} \cdot R)$ mg $(0,079+7,7 \cdot 10^{-3} \cdot R)$ mg	
Volume	ISO 4269:2001 OIML R 71:2008 LST EN ISO 8222:2020 V2-05 2025-03-10	Fixed storage tanks	(3 ... 200) m ³	$(0,0024+0,0665 \cdot 10^{-3} \cdot R)$ m ³	R – tank volume
Volume	V2-06 2019-01-14	Fixed storage tanks	(200 ... 50000) m ³	$(0,0718+3,5002 \cdot 10^{-4} \cdot R)$ m ³	R – tank volume
Length	G2-05 2022-09-27	Calliper, depth gauges	To 2000 mm	0,013 mm 0,026 mm 0,065 mm 0,13 mm	-
Length	G2-02 2017-08-14	Micrometric measuring instruments	To 1000 mm	Unit value 1,0 µm 10 µm	-
Length	G2-04 2017-08-14	Indicators	Indicator heads up to 200 mm Unit value 1,0 µm 10 µm 50 µm 100 µm	0,58 µm 5,8 µm 29,0 µm 57,7 µm	-
Length	G2-06 2025-04-15	Measures of length, tape measures, rulers, measuring tapes, distance and height measuring instruments	To 200 mm (unit value 0,0001 mm)	1,6 µm	-
			From 1 m to 200 m (unit value 0,2 mm)	$0,1560 \cdot L + 0,4890$ mm	
			To 10 m	$0,0001 \cdot L + 0,708$ mm	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Klaipėda regional laboratory, address Liepų str. 54 K4, 92106 Klaipėda					
(unit value 1,0 mm)					
Length	G2-15 2023-12-19	Thickness measuring instruments	From 10 m to 200 m (unit value 1,0 mm)	$0,0002 \cdot L^2 + 0,0177 \cdot L + 0,4200 \text{ mm}$	-
			(0 ... 635) mm		
			Unit value		
			100 µm	57,7 µm	
			10 µm	5,8 µm	
Length	G2-03 2017-08-14	Sieves: - Netting (silk, man-made fibres, twisted yarns, metal wires) - perforated metal sheet; - rods; grain.	1 µm	0,58 µm	Uncertainty does not include the contribution of the best sieve uncertainty
			0,1 µm	0,099 µm	
			Mesh dimensions	1,2 µm	
			(0,02 ... 125) mm		
Pressure	EURAMET/cg-17 v.4.1 (09/2022) S2-02 2025-05-09	Electromechanical and mechanical manometers	(-5 ... -95) kPa	$(0,0065+381 \cdot 10^{-6} \cdot p) \text{ kPa}$	p – pressure value at the calibration point
			(5 ... 250) kPa	$(0,0061+171 \cdot 10^{-6} \cdot p) \text{ kPa}$	
			(250 ... 300) kPa	$(0,0583+2,66 \cdot 10^{-5} \cdot p) \text{ kPa}$	
			(300 ... 10505) kPa	$(0,063+32 \cdot 10^{-6} \cdot p) \text{ kPa}$	
			(1000 ... 60000) kPa	$(0,46+226,2 \cdot 10^{-6} \cdot p) \text{ kPa}$	
Temperature	LST EN 13485:2024 T2-02 2025-05-09	Digital thermometers	(-40,0 ... -20,1) °C	0,049 °C	-
			(-20,0 ... +150,0) °C	0,018 °C	
			(+150,1 ... +600) °C	0,037 °C	
Temperature	ISO 386:1997 LST EN 1770:2002 LST EN 1771:2004 OIML R 133:2002 T2-01 2025-05-09	Liquid-in-glass thermometers	(-40 ... +120) °C		-
			MP unit value: 0,05 °C		
			0,1 °C	0,029 °C	
			0,2 °C	0,058 °C	
			0,5 °C	0,12 °C	
			1 °C	0,29 °C	
			2 °C	0,58 °C	
Temperature	EURAMET cg-13 v.4.0 2017 T2-07 2025-05-09	Thermostats	(-40,0 ... +300,0) °C	0,036 °C	-
			(+300,1 ... +500,0) °C	0,042 °C	
			(+500,1 ... +600,0) °C	0,050 °C	
Temperature	LST EN 285:2015+A1:2021 LST EN	Drying cabinets, electric ovens, sterilisers	(+20 ... +600) °C	0,35 °C	

Calibration and measurement capability (CMC) expressed as:					
Measurand	Reference number of calibration method or procedure	Type of instrument to be calibrated	Measurement range and additional parameters (where applicable)	Measurement uncertainty	Measurand
Klaipėda regional laboratory, address Liepų str. 54 K4, 92106 Klaipėda					
	13060:2014+A1:2019 T2-05 2022-09-27				
DC current	P-E-2005-13 2012-05-18	Analog multimeters	10 μ A ... 10 A	$(8,0 \cdot 10^{-8} + 8,1 \cdot 10^{-5} \cdot I)$ A	I – indication of the reference calibrator
Resistance	EURAMET cg-15 v.3.0 2015	Digital multimeters	(0,001 ... 0,1) Ω (0,1 ... 1000) Ω 1000 Ω ... 0,1 M Ω (0,1 ... 100) M Ω (100 ... 999,90) M Ω	$(5,77 \cdot 10^{-3} \cdot R)$ Ω $(6 \cdot 10^{-3} + 6,10 \cdot 10^{-5} \cdot R)$ Ω $(0,07 + 6,35 \cdot 10^{-5} \cdot R)$ Ω $(49 + 8,96 \cdot 10^{-5} \cdot R)$ Ω $(1960 + 7,05 \cdot 10^{-5} \cdot R)$ Ω	R – indication of the measuring instrument
	P-E-2005-14 2023-12-27				

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.

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