

## Calibration services

*Listed prices are given without VAT*

Code	Service	Price EUR
	Time based tariff (one hour of working time)	50,00

### TIME AND FREQUENCY MEASUREMENT DEVICES

Additional point +10% of main price

201010	Time and frequency measures and measuring devices calibration $10^{-10} \leq U < 10^{-8}$	385,00
201030	Time and frequency measures and measuring devices calibration $10^{-8} \leq U < 10^{-5}$	210,00
201050	Time and frequency measures and measuring devices calibration $10^{-5} \leq U < 10^{-3}$	125,00
201220	Tachograph testing devices calibration (output impulse frequency, W-parameter and clock test)	150,00
201070	Generator calibration 0,1 Hz...1200 MHz (frequency measurement 5...7 points), $10^{-7} \leq U < 10^{-5}$	190,00
201080	Generator calibration 0,1 Hz...1200 MHz (frequency measurement 5...7 points), $10^{-5} \leq U < 10^{-3}$	140,00
201130	Generator bandwidth calibration (0,01 Hz...1200 MHz, -30dBm...+20dBm), service is applied additionally to service code 201070 or 201080	85,00
201120	Attenuator calibration (0,01 Hz...1200 MHz, -30 dBm...+20 dBm)	110,00
201150	Power meter calibration (9 kHz...6000 MHz, -30 dBm...+20 dBm), (one level at 5...7 frequencies and 5...7 levels at one frequency)	105,00
201140	Oscilloscope calibration, (horizontal and vertical deflection, up to 4 channels, each additional channel +10%)	140,00
201160	Oscilloscope calibration, additional functions (overshoot, rise time; service is applied additionally to service code 201140)	90,00
201190	Timers/stopwatches calibration (up to 3 points) $U \leq 0,1$ s	60,00
201210	Timers/stopwatches calibration (up to 3 points) $U \leq 0,05$ s	85,00
201200	Tachometer calibration (up to 5 points)	70,00

## ELECTRICAL QUANTITIES MEASUREMENT DEVICES

### VOLTAGE, CURRENT AND POWER MEASURES, SOURCES AND MEASURING DEVICES

Additional function/parameter/range +20% of main price

202010	DC voltage measures calibration ( $0,0001 \leq U < 0,001$ ) %	480,00
202050	Voltage, current and power measures/sources/measuring instruments calibration (includes up to 2 parameters with one range, up to 5 points in range) $1 \mu\text{V} \dots 1 \text{ kV}/10 \mu\text{A} \dots 10 \text{ A}$ , DC...1 MHz ( $0,001 \leq U < 0,005$ ) %	200,00
202060	Voltage, current and power measures/sources/measuring instruments calibration (includes up to 2 parameters with one range, up to 5 points in range) $1 \mu\text{V} \dots 1 \text{ kV}/10 \mu\text{A} \dots 3 \text{ kA}$ , DC...1 MHz ( $0,005 \leq U < 0,1$ ) %	140,00
202180	Voltage, current and power measures/sources/measuring instruments calibration (includes one parameter with one range, up to 5 points) $1 \mu\text{V} \dots 1 \text{ kV}/10 \mu\text{A} \dots 3 \text{ kA}$ , DC...1 MHz ( $0,1 \leq U < 1$ ) %	40,00
202190	High voltage source and kilovoltmeter (>1 kV) calibration (one range, voltage and current, up to 5 points)	220,00

TRANSDUCER INDICATORS (electrical simulation of temperature, pressure etc.)

Additional function/range/channel/5 points +20% of main price

203030	Transducer indicator (with DC voltage, DC current or resistance input) calibration (one function/range/channel, up to 5 points)	95,00
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### ELECTRICAL INSTALLATION AND SAFETY TEST EQUIPMENT

Calibration of installation and safety test devices  $\leq 1 \text{ kV}$  are done according to EN 61557-1...10.

Additional function (devices with more than 7 functions) +10% of main price and additional voltage range >1kV +20% of main price

204060	Safety test device $\leq 1 \text{ kV}$ (devices up to 3 functions) calibration	120,00
204080	Safety test device $\leq 1 \text{ kV}$ (devices with 4 up to 5 functions) calibration	160,00
204100	Safety test device $\leq 1 \text{ kV}$ (devices with 6 up to 7 functions) calibration	230,00
204110	Safety test device >1 kV calibration (includes up to 4 functions $\leq 1 \text{ kV}$ and one range >1 kV)	280,00
204120	Safety test device calibration, additional parameter, applied with 204060...204110	15,00
204070	ESD device calibration (Wrist Strap, Footwear Test Station etc.), voltage indicator calibration, one function	85,00

### RESISTANCE MEASURES AND MEASURING DEVICES

Additional range (up to 10 points) +20% of main price

206070	Resistance measures ( $10^{-3} \dots 10^4$ ) $\Omega$ calibration ( $1 \leq U < 5$ ) $\mu\Omega/\Omega$	350,00
206080	Resistance measures ( $10^{-3} \dots 10^8$ ) $\Omega$ calibration ( $0,0005 \leq U < 0,01$ ) %	120,00
206120	Resistance measures and measuring devices ( $10^{-3} \dots 10^{10}$ ) $\Omega$ calibration, 1 range ( $0,001 \leq U < 0,01$ ) %	150,00
206100	Resistance measures and measuring devices ( $10^{-4} \dots 40^{10}$ ) $\Omega$ calibration, 1 range ( $0,01 \leq U < 0,5$ ) %	105,00

### MULTIMETERS/CURRENT CLAMPS

Multimeter calibration includes DC & AC voltage, DC & AC current and DC resistance calibration.

Calibration guide: Euramet cg-15. Additional function +20% of main price (frequency, capacity etc.)

211302	Multimeter (7 or above numerical places, maximum reading over 8999999 counts) calibration	430,00
211330	Multimeter (6 numerical places, maximum reading 8999999 counts) calibration	260,00
211340	Multimeter (5 numerical places or maximum reading 199999) calibration	230,00
211370	Multimeter (4 numerical places, maximum reading 19999) calibration	200,00
211310	Multimeter (up to 3 numerical places, maximum reading 1999) calibration	100,00
211320	Multimeter calibration, one function (DC or AC current, DC or AC voltage or DC resistance) ( $0,005 \leq U < 0,1$ ) %	125,00
211380	Current clamp calibration (current)	95,00
211390	Current clamp calibration (up to 4 numerical places, current, voltage, resistance)	150,00

### CURRENT TRANSFORMERS

Additional transfer step +10% of main price

216010	Current transformer (50 mA...3 kA)/1A, 5A, 50 Hz calibration, one transfer step ( $0,05 \leq U < 0,1$ ) %	105,00
216020	Current transformer (50 mA...3 kA)/5 A; 50 Hz calibration/conformity assessment on 1 transfer step ( $0,1 \leq U < 0,5$ ) %	35,00

CAPACITANCE, INDUCTANCE AND AC RESISTANCE MEASURES AND MEASURING DEVICES

221024	Capacitance and inductance measures calibration	80,00
221044	RLC-meter calibration ( $0,05 \leq U < 0,5$ ) %	150,00
221034	RLC-meter and AC bridge calibration ( $0,005 \leq U < 0,05$ ) %	265,00

ELECTRICAL CONDUCTIVITY MEASURES

Additional frequency +20% of main price

221050	Electrical conductivity standard calibration at 2 frequencies (1,0...59,5) MS/m, (60; 120; 240; 480) kHz, ( $0,6 \leq U < 1,4$ ) %	135,00
221051	Electrical conductivity standard calibration at 2 frequencies, incl. measurement of temperature coefficient (1,0...59,5) MS/m, (60; 120; 240; 480) kHz, ( $0,6 \leq U < 1,4$ ) %	185,00

MEASUREMENT DEVICES FOR PHYSICAL-CHEMICAL QUANTITIES

Additional point, range, parameter etc +20% of main price, excl. sound level meters

Device with voltage/current output +20% of main price

207054	Hygrometer calibration (up to 3 humidity points at one temperature)	80,00
207055	Thermohygrometer calibration (3 temperature points + 3 humidity points at one temperature)	105,00
207056	Thermohygrometer with data logger calibration (3 temperature points + 3 humidity points at one temperature)	120,00
207114	pH-meter calibration (3 points, pH 4; 7 and 9,21)	85,00
207230	Sound level meter calibration, 1 frequency weighting (A or C), 4 frequencies (31,5 Hz; 125 Hz; 1 kHz; 8 kHz) and 3 levels (94 dB; 104 dB; 114 dB)	75,00
207270	Sound level meter calibration, additional frequency weighting (A or C, same frequencies and levels) or additional frequency (3 levels), applied with 207230	30,00
207280	Sound level meter conformity assessment/calibration (according to EVS-EN 61672-1:2013, acoustical method)	170,00
218010	Areometer / Density meter calibration (up to 3 points, range $650 \text{ kg/m}^3 \dots 1850 \text{ kg/m}^3$ , $U \geq 0,1 \text{ kg/m}^3$ )	145,00
218020	Density meter calibration using CRMs (water density at 3 temperature + 1 density at one temperature in the range $692 \text{ kg/m}^3 \dots 1622 \text{ kg/m}^3$ , $U \geq 0,1 \text{ kg/m}^3$ )	185,00
218030	Additional density using CRMs, applied with 218020	70,00
218050	Alcoholometer accuracy class 2 and 3 calibration (up to 3 points)	160,00
207240	Dissolved oxygen meter calibration (up to 3 points)	140,00
207250	Electrical conductivity meter calibration, range $84 \mu\text{S/cm} \dots 24,80 \text{ mS/cm}$ (up to 5 points)	150,00
207251	Electrical conductivity meter calibration, additional point in range (14,94...84) $\mu\text{S/cm}$ , applied with 207250	75,00
207260	Breath analyzer (exclud. evidential breath analyzers) calibration (3 points)	20,00

FORCE MEASUREMENT DEVICES

Additional point +10% of main price

208014	Force gauges and transducers up to 1 kN calibration (up to 5 points) $U \geq 0,2$ %	100,00
208024	Force gauges and transducers up to 50 kN calibration (up to 5 points) $U \geq 0,2$ %	150,00
208130	Force gauges and transducers over 50 kN calibration (up to 5 points) $U$ : (0,3...1) %	280,00
208150	Force transducers up to 50 kN calibration, mV/V output (up to 10 points) $U \geq 0,2$ %	250,00
208044	Dynamometric (torque) wrench up to 400 Nm calibration (up to 5 points) $U$ : (0,3...0,5) %	50,00
208054	Dynamometric (torque) wrench over 400 Nm and up to 1 kNm calibration (up to 5 points) $U$ : (0,3...0,5) %	70,00
208045	Dynamometric (torque) wrench with digital readout, with specific adapter or without preset torque limiter mechanism, up to 400 Nm calibration (up to 5 points) $U$ : (0,3...0,5) %	70,00
208055	Dynamometric (torque) wrench with digital readout, with specific adapter or without preset torque limiter mechanism, over 400 Nm and up to 1 kNm calibration (up to 5 points) $U$ : (0,3...0,5) %	90,00
208056	Dynamometric (torque) wrench over 1 kNm and up to 3 kNm calibration (up to 5 points) $U$ : (0,3...0,5) %	100,00
208140	Pull-, and pressure testers and testing machines up to 1 kN calibration (up to 5 points) $U$ : (0,05...1) %	175,00
208064	Presses and testing machines over 1 kN calibration (up to 5 points) $U$ : (0,05...1) %	260,00
208114	Torque tester <20 Nm calibration (up to 5 points) $U \geq 0,5$ %	150,00
208104	Torque tester $\geq 20$ Nm calibration (up to 5 points) $U \geq 0,5$ %	220,00
208124	Vehicle brake testers calibration (braking force and vehicle weight parameters, up to 3 points each parameter)	240,00

**VOLUME MEASUREMENT DEVICES**

Additional filling mark, flow +20% of main price

209010	Volumetric glassware calibration (up to 3 filling marks)	55,00
209120	Liquid meters calibration on site (one flow $Q < 30 \text{ m}^3/\text{h}$ $U: (0,1...0,5) \%$ )	150,00
209130	Piston pipette calibration (up to 2 filling marks)	50,00

**MASS MEASUREMENT EQUIPMENT**

Additional point +10% of main price. Additional tests (determination of minimum weight, additional tests with tare etc.) +50% of main price. Calibration of weights - the price for single weight

210340	Weight E2 (1 mg...50 kg) calibration	95,00
210020	Weight F1 (1 mg...5 kg) calibration	45,00
210050	Weight F1 (10 kg...50 kg) calibration	60,00
210030	Weight F2 (1 mg...20 kg) calibration	25,00
210040	Weight M1 (1 mg...5 kg) calibration	20,00
210150	Weight M1 over 5 kg and up to 50 kg calibration	30,00
210180	Non-automatic weighing instruments, class I calibration (up to 10 points) $U: (0,01...20) \text{ mg}$	130,00
210190	Non-automatic weighing instruments, class II up to 30 kg calibration (up to 10 points) $U: (0,1...200) \text{ mg}$	80,00
210210	Non-automatic weighing instruments, class III up to 200 kg calibration (up to 10 points) $U: (0,3...10) \text{ g}$	60,00
210230	Non-automatic weighing instruments, class III up to 500 kg calibration (up to 5 points) $U: (4...12) \text{ g}$	100,00
210240	Non-automatic weighing instruments, class III up to 2 t calibration (up to 5 points) $U: (12...50) \text{ g}$	180,00
210250	Non-automatic weighing instruments, class III up to 5 t calibration (up to 5 points) $U: (50...100) \text{ g}$	240,00
210260	Crane scale calibration (over 5 t and up to 50 t) (up to 5 points)	300,00

**LENGTH MEASUREMENT DEVICES**

Additional point, range, parameter etc +10% of main price

212070	Dial indicator; inner, depth and thickness gauge with dial indicator calibration (up to 10 points) $U: (2...50) \mu\text{m}$	52,00
212120	Micrometer (0...25) mm calibration (up to 5 points) $U: (2...4) \mu\text{m}$	25,00
212130	Micrometer (25...100) mm calibration (up to 5 points) $U: (2,5...5,0) \mu\text{m}$	32,00
212140	Micrometer >100 mm; inside- and depth-micrometer and micrometer head calibration (up to 5 points) $U: (3...30) \mu\text{m}$	40,00
212162	Inside micrometer head (<200 mm) calibration $U: (3...10) \mu\text{m}$	40,00
212163	Inside micrometer head ( $\geq 200 \text{ mm} \dots \leq 1000 \text{ mm}$ ) calibration $U: (3...30) \mu\text{m}$	60,00
212164	Inside micrometer extension rods up to 50 mm calibration $U: (1...5) \mu\text{m}$	20,00
212165	Inside micrometer extension rods up to 500 mm calibration $U: (1...10) \mu\text{m}$	30,00
212166	Inside micrometer extension rods up to 1000 mm calibration $U: (3...30) \mu\text{m}$	45,00
212145	Micrometer setting measures up to 100 mm calibration $U: (1...5) \mu\text{m}$	16,00
212150	Micrometer setting measures up to 500 mm calibration $U: (1...5) \mu\text{m}$	22,00
212160	Micrometer setting measures (>500...1000) mm calibration $U: (3...8) \mu\text{m}$	33,00
212161	Micrometer setting measures >1000 mm calibration $U: (3...8) \mu\text{m}$	40,00
212180	Three-point inside micrometer up to 200 mm calibration (at least 2 points) $U: (2,5...5,0) \mu\text{m}$	57,00
212270	Measuring tape/dip tape up to 5 m calibration (up to 5 points) $U: (0,1...0,3) \text{ mm}$	37,00
212290	Measuring tape/dip tape (>5...20) m, calibration (up to 5 points) $U: (0,1...0,8) \text{ mm}$	68,00
212300	Measuring tape/dip tape (>20...120) m calibration (up to 5 points) $U: (0,1...10) \text{ mm}$	100,00
212260	Ring gauge/setting ring, plug gauge, diameter up to 60 mm, calibration diameter in one direction $U: (0,6...1,2) \mu\text{m}$	50,00
212265	Ring gauge/setting ring, plug gauge, diameter (>60...290) mm, calibration diameter in one direction $U: (1,0...2,0) \mu\text{m}$	65,00
212280	Ring gauge/setting ring, plug gauge calibration roundness deviation at three heights $U: (0,5...1) \mu\text{m}$ , applied with 212260 or 212265	30,00
212060	Thread gauge calibration (pitch diameter) $U: (3...5) \mu\text{m}$	45,00

212061	Thread gauge calibration (pitch diameter, both sides of plug gauge GO/NOTGO) $U: (3...5) \mu\text{m}$	60,00
212330	Caliper (0...200) mm calibration (up to 5 points) $U: (0,02...0,2) \text{ mm}$	20,00
212340	Caliper (0...1000) mm; height-, depth- and inside calipers calibration (up to 5 points) $U: (0,02...0,2) \text{ mm}$	27,00
212350	Caliper (0...2000) mm calibration (up to 5 points) $U: (0,02...0,2) \text{ mm}$	50,00
212310	Dial indicators and measuring heads, with scale division $\leq 1 \mu\text{m}$ calibration (up to 10 points) $U: (0,5...2,0) \mu\text{m}$	80,00
212250	Ruler calibration (up to 5 points) $U: (0,07...0,14) \text{ mm}$	25,00
212320	Measuring wheel calibration $U: (1,0...1,5) \%$	75,00
212720	Cable length measuring device calibration $U: (0,2...1,5) \%$	105,00
212530	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.1 and 5.3.2.2, "compliance and inspection"), aperture (4...125) mm $U: (0,03...0,10) \text{ mm}$	40,00
212531	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.1 and 5.3.2.2, "compliance and inspection"), aperture (0,4...3,55) mm $U: (2,2...5,0) \mu\text{m}$	55,00
212532	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.1 and 5.3.2.2, "compliance and inspection"), aperture (45...355) $\mu\text{m}$ $U: (2,2...5,0) \mu\text{m}$	70,00
212535	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.3, "calibration"), aperture (4...125) mm $U: (0,03...0,10) \text{ mm}$	50,00
212540	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.3, "calibration"), aperture (0,4...3,55) mm $U: (2,2...5,0) \mu\text{m}$	82,00
212545	Sieve calibration (EVS-ISO 3310-1:2017 in 5.3.2.3, "calibration"), aperture (45...355) $\mu\text{m}$ $U: (2,2...5,0) \mu\text{m}$	130,00
212570	Ultrasonic thickness gauges and coating thickness gauges (one range, Fe or NFe) calibration (up to 5 points) $U: (1...100) \mu\text{m}$	70,00
212571	Coating thickness gauges (two ranges, Fe+NFe) calibration (up to 5 points) $U: (1...100) \mu\text{m}$	85,00
212600	Laser distance meters calibration (up to 5 points) $U: (1...5) \text{ mm}$	70,00
212580	Measuring microscope calibration, up to two scales $U: (1...21) \mu\text{m}$	180,00
212170	Reading microscope calibration (up to 5 points) $U: 0,02 \text{ mm}$	50,00
212380	Angle gauge/protractor calibration (up to 5 points) $U: 5'$	40,00
212360	Square (deviation from vertical line) calibration (up to 5 points) $U: 20 \mu\text{m}$	54,00
212370	Square (deviation from vertical line, arm length up to 1000 mm) calibration (up to 5 points) $U: 20 \mu\text{m}$	70,00
212470	Level (one surface, one bubble) and inclinometer, scale division $>0,01^\circ$ , calibration $U: (0,2...0,5) \text{ mm/m}$ Additional scale +20%	45,00
212480	Level and inclinometer calibration, scale division $\leq 0,2 \text{ mm/m}$ or $\leq 0,01^\circ$ (up to 5 points) $U: (0,005...0,2) \text{ mm/m}$	90,00
212490	Laser level calibration (horizontal line in two directions, check of detector if available)	125,00
212500	Surface plate flatness calibration, Moody's method (side length up to 1000 mm)	200,00
212510	Welding gauge calibration (up to three scales, each additional scale +20% of main price)	50,00
212610	Gauge block calibration base price for class K and 0 (additional unit price according to class and range)	90,00
212611	Gauge block calibration unit price, class K and 0, (0,5...100) mm, $U \geq [0,054^2 + (0,91 \times L)^2]^{1/2} \mu\text{m}$	25,00
212612	Gauge block calibration unit price, class K and 0, (>100...500) mm, $U \geq [0,28^2 + (1,2 \times L)^2]^{1/2} \mu\text{m}$	45,00
212660	Gauge block calibration base price for class 1 and 2 (additional unit price according to class and range)	45,00
212620	Gauge block calibration unit price, class 1 and 2, (0,5...100) mm, $U \geq (0,07 + 0,6 \times L) \mu\text{m}$	15,00
212650	Gauge block calibration unit price, class 1 and 2, (>100...1000) mm, $U \geq (0,2 + 2 \times L) \mu\text{m}$	37,00

### PRESSURE MEASUREMENT DEVICES

Additional point etc +20% of main price; time based tariff applies if Metrosert must dismount pressure gauge for calibration. Device with voltage/current output +20% of main price

213282	Pressure and vacuum gauge accuracy class 1,0...4,0 conformity assessment (according to requirements stated in EVS-EN 837-1, -3 or GOST 2405-88; only conformity statement at certificate) The expanded uncertainty of measurements is not taken into account in the statement of conformity	27,00
213292	Pressure gauge (analog scale) accuracy class 0,15...0,6 calibration (up to 5 points) $0,05 \% \leq U \leq 0,2 \%$	80,00
213070	Pressure and vacuum gauge (analog scale) accuracy class 1,0 ... 4,0 (incl. tyre pressure gauges, oxygen pressure gauges) calibration (up to 5 points) $U \geq 0,2 \%$	35,00
213310	Pressure gauge accuracy class 0,15...4 (with digital readout, pressure sensor with display) calibration (up to 5 points) $0,05 \% \leq U \leq 0,2 \%$	80,00
213130	Micromanometer and differential manometer calibration (up to 3 points, min 5 Pa) $U \geq 0,2 \text{ Pa}$	110,00
213240	Pressure transducer (voltage/current output) calibration (up to 5 points, incl. zero) $0,05 \% \leq U \leq 0,2 \%$	150,00
213250	Pressure reference standard, accuracy class 0,1 and more accurate, calibration (up to 5 points) $0,01 \% \leq U \leq 0,05 \%$	240,00
213330	Absolute pressure gauge (incl. barometers) calibration (up to 3 points) $0,05 \% \leq U \leq 0,2 \%$	130,00
213220	Pressure balances piston-cylinder assembly (0...70) MPa calibration (effective area determined at 5 pressures) $0,01 \% \leq U \leq 0,2 \%$	400,00
213260	Non-automatic sphygmomanometer calibration/conformity assessment (e.g. according to requirements stated in EVS-EN ISO 81060-1:2012) (6...7 points) $U \leq 0,1 \text{ kPa}$ (0,6 mmHg) The expanded uncertainty of measurements is not taken into account in the statement of conformity	27,00
213270	Automatic and semi-automatic blood pressure monitor calibration (up to 3 systolic-diastolic pressure ranges) $U \geq 0,3 \text{ kPa}$ (2 mmHg)	27,00

### TEMPERATURE MEASUREMENT DEVICES

Additional point +20% of main price, except 214140 - temperature chambers, furnaces and freezers  
Device with additional voltage/current output +20% of main price

214150	Resistance thermometers (Pt) calibration at the fixed points (Hg, H <sub>2</sub> O, Ga, Sn, Zn) main price $0,003 \text{ }^\circ\text{C} \leq U < 0,006 \text{ }^\circ\text{C}$ (includes calibration at one fixed point)	190,00
214151	each additional fixed point (Hg, H <sub>2</sub> O, Ga, Sn, Zn)	150,00
214160	Resistance thermometers Pt (-40...+200) °C calibration main price $0,008 \text{ }^\circ\text{C} \leq U < 0,04 \text{ }^\circ\text{C}$	190,00
214161	each calibration point	55,00
214084	Thermometers (-80...+300) °C, $d \leq 0,1 \text{ }^\circ\text{C}$ , calibration (up to 3 points)	150,00
214010	Liquid-in-glass thermometers (-40...+300) °C, scale division $< 0,5 \text{ }^\circ\text{C}$ , calibration (up to 3 points)	120,00
214015	Infrared thermometers (-30...+300) °C calibration (up to 3 points)	95,00
214020	Thermographic instrument (-15...+120) °C calibration (up to 5 points)	350,00
214080	Thermometers (-40...+400) °C (scale division/ $d \geq 0,1 \text{ }^\circ\text{C}$ ) calibration (up to 3 points)	70,00
214085	Thermometers with surface probe (-25...+350) °C calibration (up to 3 points)	95,00
214090	Temperature data loggers (-40...+400) °C calibration (up to 3 points)	92,00
214110	Thermometers, resistance thermometers (-40...+1100) °C calibration (up to 3 points)	100,00
214140	Temperature chambers, furnaces, freezers (-80...+1100) °C calibration (one temperature, one measuring location)	110,00
214141	each additional temperature	40,00
214142	each additional measuring location	10,00
214180	Temperature block calibrators (-40...+1100) °C calibration (up to 5 points)	240,00

**MEASUREMENT DEVICES FOR OPTICAL QUANTITIES**

Additional point, wavelength etc +20% of main price

207024	Spectrophotometer, photocolorimeter calibration (up to 3 wavelengths)	135,00
207154	Refractometer calibration (up to 5 points)	95,00
207222	Window-(light)transmittance meter calibration (up to 5 points)	65,00
217010	Luxmeter calibration (up to 10 points), (15...5000) lx	150,00
217020	Smoke opacity meter calibration (up to 5 points + check with the light beam unblocked/blocked)	85,00
217030	Colour meter calibration/surface colour measurement, colour coordinates X, Y, Z or L*, a*, b* $0 \leq X, Y, Z \leq 100$ ( $0,6 \leq U < 20$ )	140,00

**LIQUID FLOW AND HEAT ENERGY MEASURING DEVICES**

Additional point etc. +20% of main price

Device with voltage/current output +20% of main price

219050	Flowmeter $t = (15...30) \text{ }^\circ\text{C}$ , $Q = (0,03...100) \text{ m}^3/\text{h}$ calibration (up to 3 points)	170,00
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	Time based tariff (one hour of working time)	50,00

**MASS MEASUREMENT DEVICES**

101012	Non-automatic Weighing Instrument I accuracy class $\leq 20$ kg conformity assessment	135,00
101020	Non-automatic Weighing Instrument II accuracy class $\leq 20$ kg subsequent verification	55,00
101022	Non-automatic Weighing Instrument II accuracy class $\leq 20$ kg conformity assessment	120,00
101040	Non-automatic Weighing Instrument II accuracy class $\leq 100$ kg subsequent verification	90,00
101042	Non-automatic Weighing Instrument II accuracy class $\leq 100$ kg conformity assessment	130,00
101030	Non-automatic Weighing Instrument III accuracy class $\leq 15$ kg subsequent verification	30,00
101032	Non-automatic Weighing Instrument III accuracy class $\leq 15$ kg conformity assessment	50,00
101070	Non-automatic Weighing Instrument III accuracy class $\leq 60$ kg subsequent verification	35,00
101072	Non-automatic Weighing Instrument III accuracy class $\leq 60$ kg conformity assessment	55,00
101080	Non-automatic Weighing Instrument III accuracy class $\leq 200$ kg subsequent verification	45,00
101082	Non-automatic Weighing Instrument III accuracy class $\leq 200$ kg conformity assessment	65,00
101090	Non-automatic Weighing Instrument III accuracy class $\leq 500$ kg subsequent verification	70,00
101092	Non-automatic Weighing Instrument III accuracy class $\leq 500$ kg conformity assessment	110,00
101100	Non-automatic Weighing Instrument III accuracy class $\leq 1000$ kg subsequent verification	105,00
101102	Non-automatic Weighing Instrument III accuracy class $\leq 1000$ kg conformity assessment	135,00
101110	Non-automatic Weighing Instrument III accuracy class $> 1000$ kg up to 3000 kg subsequent verification	170,00
101112	Non-automatic Weighing Instrument III accuracy class $> 1000$ kg up to 3000 kg conformity assessment	220,00
101230	Truck scale III accuracy class $\leq 60$ t subsequent verification	380,00
101232	Truck scale III accuracy class $\leq 60$ t conformity assessment	790,00
101240	Crane scale III; IIII accuracy class $\geq 5$ t up to 50 t subsequent verification	300,00
101242	Crane scale III; IIII accuracy class $\geq 5$ t up to 50 t conformity assessment	360,00
101233	Weighing instruments with combined range, each additional range adds 75% to verification price	
101280	Wheel load scale subsequent verification	90,00
101282	Wheel load scale conformity assessment / initial verification	120,00
101290	Railway scale (automatic) $\leq 150$ t subsequent verification	850,00
101292	Railway scale (automatic) $\leq 150$ t conformity assessment	1400,00
101370	Railway scale (non-automatic) $\leq 150$ t subsequent verification	600,00
101372	Railway scale (non-automatic) $\leq 150$ t conformity assessment	1000,00

**VOLUME MEASUREMENT DEVICES**

102010	Fuel dispenser accuracy class 0,5 subsequent verification (max flow $\leq 100$ l/min)	35,00
102012	Fuel dispenser accuracy class 0,5 conformity assessment (max flow $\leq 100$ l/min)	50,00
104010	Measuring system/meter for liquids (other than water and oil products), subsequent verification	150,00
104012	Measuring system/meter for liquids (other than water and oil products), conformity assessment	150,00
115050	Serving measure, subsequent verification	20,00
115140	Measuring system/meter for liquids (oil products), subsequent verification (max flow $> 200$ l/min)	280,00
115142	Measuring system/meter for liquids (oil products), conformity assessment (max flow $> 200$ l/min)	400,00

**HEAT ENERGY METERS**

105010	Heat energy meter up to DN40 subsequent verification	40,00
105013	Heat energy meter DN50...DN100 subsequent verification	80,00
105020	Heat energy meter calculating unit subsequent verification	25,00
105030	Heat energy meter temperature sensor pair subsequent verification	15,00
105040	Heat energy meter volume measurement unit subsequent verification	30,00

**WATER METERS**

107006	Hot water meter up to 20 mm, single jet (domestic water meter), subsequent verification	7,50
107010	Hot water meter 20 mm subsequent verification	15,00
108006	Cold water meter up to 20 mm, single jet (domestic water meter), subsequent verification	7,50
108010	Cold water meter 20 mm subsequent verification	15,00
108020	Water meter 25-40 mm subsequent verification	22,00
108030	Water meter 50-65 mm subsequent verification	40,00
108040	Water meter 80-100 mm subsequent verification	70,00



**VEHICLE TECHNICAL AND  
 TRAFFIC SURVEILLANCE MEASUREMENT EQUIPMENT**

112010	Vehicle speed meter subsequent verification	155,00
112012	Vehicle speed meter initial verification	155,00
112015	Vehicle speed meter (LIDAR integrated with a video system) subsequent verification	195,00
112016	Vehicle speed meter (LIDAR integrated with a video system) initial verification	195,00
112018	Additional price for every added antenna	90,00
112019	Additional price for every added indicator	120,00
112020	Vehicle exhaust gas analyser subsequent verification	190,00

**TAXIMETERS**

If order contains only verification or adaptation then the fee is -50%  
 Each additional tariff (e.g. night tariff) +20,00 EUR

113031	Taximeter subsequent verification + adaptation, 1 tariff	50,00
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**LENGTH MEASUREMENT DEVICES**

115230	Length measure $\leq 1$ m subsequent verification	25,00
115240	Length measure $\leq 10$ m subsequent verification	40,00
115243	Price for every additional 10 m	35,00
115270	Cable measurement device subsequent verification	75,00
115272	Cable measurement device conformity assessment	100,00
115273	Measuring wheel subsequent verification	85,00
115274	Measuring wheel initial verification	85,00

**Measurement services**

*Listed prices are given without VAT*

Code	Service	Price EUR
	Time based tariff (one hour of working time)	50,00

**TIME AND FREQUENCY MEASUREMENT**

501010	Centrifuge rotational speed measurements (up to 5 points)	100,00
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**MASS MEASUREMENT**

510010	Determination of unladen weight of vehicle, up to 60 t	80,00
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**GEOMETRICAL PARAMETERS MEASUREMENT**

512020	Measurement services with coordinate measuring machine (CMM) (hourly tariff), min 1 hour	65,00
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**TEMPERATURE MEASUREMENT**

514010	Temperature and pressure measurements in autoclave (one pressure, one temperature, one measuring location)	140,00
514012	each additional measuring location, temperature measurements in autoclave, applied with 514010	30,00
514170	Temperature recorders of temperature chambers (-40...+100) °C, periodic verification, price for one temperature sensor	100,00

**Other services**

*Listed prices are given without VAT*

Code	Service	Price EUR
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**Time based tariff**

Time based tariff is calculated with maximum accuracy of 1/10 hour step ie 1/10 conforms to 0,1\*50,00 = 5 EUR

401000	Time based tariff (one hour of working time)	50,00
403000	Rental services, prices upon request	

**TRANSPORT**

402010	Transport fee EUR/km (from Metrosert to client and back)	0,50
402011	Transport fee EUR/km (from Metrosert to client and back) when transporting trailer and/or weights above 500 kg	0,65
402030	Transport fee, min 20,00 EUR	20,00
402031	Transport fee when transporting trailer and/or weights above 500 kg, min 30,00 EUR	30,00
402020	Expert travelling with customers transport, cost for transit time (hourly tariff)	30,00
402040	Waiting fee (cost for waiting time caused by customer, for on-site calibration/verification, hourly tariff)	30,00
402050	Preparation of the parcel (up to 30 kg) for shipping (fee is applied when client uses its own courier)	5,00
402060	Courier services, within Estonia, weight of the parcel up to 15 kg	10,00
402070	Courier services, within Estonia, weight of the parcel >15 kg...30 kg	15,00
402080	Other expences while travelling (based on actual costs)	

**CERTIFICATES and TRANSLATION**

403010	Calibration Certificate in English or Russian language	40,00
403020	Duplicate of certificate	10,00
403030	Verification Certificate in English or Russian language (copy with free translation)	20,00
403040	Hard copy of Calibration/Verification Certificate	3,00

**TRAINING**

404020	Metrology-related training, group 1-10 persons, one day	1300,00
404030	Metrology-related training, group 11-20 persons, one day	1600,00
404040	Metrology audit, one audit-day	500,00
404050	Consultation, advisory services (time based tariff, minimum one hour)	60,00