

Calibration services 2026

# **VTT MIKES** calibration and expert services

## Index

- $\rightarrow$  Weights
- $\to \text{Density}$
- $\rightarrow$  Gas flow
- $\rightarrow \textbf{Pressure}$
- $\rightarrow$  Thermometers
- $\rightarrow$  Hygrometers
- $\to \text{Length}$
- $\rightarrow$  Time and Frequency
- $\rightarrow$  Electricity
- $\rightarrow$  Acoustics
- $\rightarrow \textbf{High Capacity Weight}$
- $\to \textbf{Force}$
- $\to \text{Torque}$
- $\to \text{Liquid Flow}$
- $\rightarrow \text{Expert services, guides}$
- $\rightarrow \text{Other services}$
- $\to \text{Addresses}$
- $\rightarrow$  Terms of contract and delivery

# Request a quote for calibration.

For information about addresses, delivery conditions and other conditions see the end of the list.

Calibration services 2026 Page 1 (6)

```
Weights
                                                                                              Length
     1 mg - 500 mg
                                                                                              Laser Radiations
                                                                                                  Stabilized laser of the mise en pratique
        OIML class F2
         OIML class E1
                                                                                                           532 nm
         Other weight classes
                                                                                                           633 nm
    1 g - 5 kg
         OIML class E2
                                                                                                  Other wavelength standards
         OIML class E1
                                                                                                       Fibre optic source
        Other weight classes
                                                                                                       Optical spectrum analyzer
     10 kg - 20 kg
                                                                                        7.2 Linear dimensions
         OIML class E2
                                                                                              Length instruments
        OIML class E1
                                                                                                  Laser interferometer
        Other weight classes
                                                                                                       Basic system
     Weight used in pressure balances (ring weights)
                                                                                                       Angle measurement option
        Accuracy class 10 ppm
                                                                                                      Straightness measurement option
         Accuracy class 5 ppm
                                                                                                       Air sensor
     Weights, basic charge
                                                                                                       Adjustment of air sensor
                                                                                                      Wave length calibration
Density of weights
                                                                                                  EDM instrument
     Density of weights, 1 g - 2 kg
                                                                                                      0 - 30 m
     Density standards, basic charge
                                                                                                  1-D measuring machine
     Hydrometers, 4 meas. points
                                                                                                       0 - 1000 mm
                                                                                                       1001 - 3000 mm
Gas flow
                                                                                                      Additional scale of same machine
     Calibration using nitrogen, 5 ml/min ... 100 l/min
                                                                                                       Scale compensation
         Using primary method: 5 meas. points
                                                                                                  Height measuring instrument
         Using an LFE-system: 5 meas. points
                                                                                                  1-D displacement
                                                                                                       Piezo etc.
Pressure
                                                                                                  1-D sensor
    Calibration of oil-filled pressure balance, 0.5 MPa ... 500 MPa
                                                                                                       Measuring range < 50 mm, max. 100 points
         (5 measurement points)
                                                                                                       Measuring range 51 mm - 200 mm, max. 100 points
     Calibration of gas-filled pressure balance, 1 MPa ... 16 MPa
                                                                                                       Additional range
                                                                                                      Reduced uncertainty (u < 0.2 \, \mu m)
        (5 measurement points)
     Calibration of a barometer by comparing it to a measurement standard
                                                                                                  Gauge block comparator
        at the prevailing air pressure (6 measurement points)
                                                                                                  Dial-indicator tester
    Pressure gauge and barometer calibration
                                                                                              End standards
     (price per measuring range includes 6 measurement points)
                                                                                                  Gauge blocks
    Negative gauge pressure calibration
                                                                                                      0,5 - 100 mm
        (price per measuring range includes 6 measurement points)
                                                                                                       > 100 1000 mm
     Vacuum gauge calibrations
                                                                                                       Special gauge block
     (price per measuring range includes 6 measurement points)
                                                                                                  Gauge block, interferometral calibration
    Spinning rotor gauge calibrations
                                                                                                      0 - 100 mm
     Leak testing using helium
                                                                                                       101 - 200 mm
     Dynamic pressure measurements, 20 MPa ... 500 MPa
                                                                                                       201 - 400 mm
                                                                                                      401 - 1000 mm
     Pressure calibrations with instrument adjustment: 1.5 x normal price
         (adjustment needs always to be agreed for each case)
                                                                                                       Gauge block set M88
     Expert services (mass, temperature, pressure, humidity, flow,
                                                                                                       Gauge block set M112
                                                                                                       Gauge block set M122
Thermometers
                                                                                                  Air gap standard
     Fixed point calibrations
                                                                                                  Sheet gauge, thickness
     Resistance thermometers ITS-90, -189 ...+660 °C
                                                                                                  Sheet gauge, diameter
         Ar (-189 °C)
                                                                                                  Length bar (long gauge block)
        Hg (-38 °C)
                                                                                                  Micrometer setting rod
        Ga (29 °C)
                                                                                                      0 - 100 mm
         Sn (232 °C)
                                                                                                       101 - 500 mm
         Zn (419 °C)
                                                                                                       > 500 mm
        AI (660 °C)
                                                                                                  Step gauge, normal accuracy (0.3 µm/m)
     Triple point of water
                                                                                                           0 - 250 mm
     Calibration by comparison
                                                                                                           251 - 350 mm
         Resistance thermometers in a liquid bath, -80 °C ... 280 °C
                                                                                                           351 - 500 mm
        Liquid-in-glass thermometers in a liquid bath, -80 °C ... 280 °C
                                                                                                           501 - 700 mm
         Digital thermometers, -80 °C ... 280 °C
                                                                                                           701 - 1100 mm
                                                                                                           1101 - 1600 mm
         Thermometers in oven, < 660 °C
         Furnaces
                                                                                                           1601 - 2020 mm
     Calibration at the boiling point of nitrogen
                                                                                                  Step gauge, better accuracy (0.15 µm/m)
     Calibration by electrical simulation
                                                                                                           0 - 250 mm
                                                                                                           251 - 350 mm
Hygrometers
                                                                                                           351 - 500 mm
    Dew point calibrations
                                                                                                           501 - 700 mm
         Dew-point temperature, -80 °C ... -61 °C
                                                                                                           701 - 1100 mm
         Dew-point temperature, -60 °C ... +84 °C
                                                                                                           1101 - 1600 mm
     Humidity and temperature calibrations
                                                                                                           1601 - 2020 mm
         10 %rh ... 95 %rh, +10 °C ... +85 °C
                                                                                                  Gap gauge
         10 %rh ... 95 %rh, -20 °C ... +10 °C
                                                                                                  Feeler (thickness) gauge
```

Calibration services 2026 Page 2 (6)

| 7.3 | Line standards  | Flatness standards  |
|-----|---|---|
|     | Precision line scale, stage micrometer                      | Optical flat < 150 mm                                       |
|     | Max 50 lines  | Optical flat (paralel, wedge)                               |
|     | 0 - 100 mm  | Surface plate (granite)                                     |
|     | 101-500 mm  | Surface plate < 1000 mm                                     |
|     | 501 - 1000 mm   | Surface plate > 1000 mm                                     |
|     | Additional scale at same substrate                          | Flatness standard for SPMs                                  |
|     | 0 - 100 mm  | Roundness standards   |
|     | 101-500 mm  | External cylinder   |
|     | 501 - 1000 mm   | External cylinder (arbor)                                   |
|     | Reduced uncertainty, u<200 nm                               | Internal cylinder   |
|     | 2D scale  | Sphere (hemisphere)   |
|     | 1-D and 2-D gratings and other microscope                   | Magnification standard                                      |
|     | calibration standards, see Microscope calibration standards | Straightness Standards                                      |
|     | Tape, wire  | Straight edge   |
|     | 0 - 30 (60, 90,) m  | Cylindrical straightness standards                          |
|     | Tape measure  | (granite)   |
|     | Plumb tape  | 0 - 1000 mm   |
|     | 0 - 30 (60, 90,) m  | > 1000 mm   |
|     | Electronic plumb tape                                       | (steel)   |
|     | Circometer  | 0 - 1000 mm   |
|     | Machinist scale   | > 1000 mm   |
|     | 0 - 1 m   | Cylindricity Standards                                      |
|     | >1 - 2 m  | External cylinder   |
|     | >2 - 3 m  | Internal cylinder   |
|     | >3 - 5 m  | 7.6 Complex Geometry  |
|     | Additional scale  | Surface Texture Standards                                   |
|     | Diameter standards  | (Groove) depth (step height) standard, e.g. ISO 5436-1 Type |
|     | External cylinder (plug, piston)                            | Tip-condition standard                                      |
|     | Reduced uncertaintly, u<500 nm                              | Spacing standard  |
|     | on diameter   | Roughness standard  |
|     | External cylinder (tapered)                                 | Profile coordinate standard                                 |
|     | Internal cylinder (ring)                                    | Screw Standards   |
|     | Reduced uncertainty u<500 nm                                | Setting standard for thread micrometer                      |
|     | on diameter   | Thread plug, plain  |
|     | Internal cylinder (tapered)                                 | Thread plug, tapered  |
|     | Sphere (ball); diameter                                     | Thread ring, plain  |
|     | Roundness   | Thread ring, tapered  |
|     | Reduced uncertainty u<300 nm                                | 2-D, 3-D Instruments  |
|     | on diameter   | Surface roungness measuring machine                         |
| 7.4 | Angle   | Additional tip  |
|     | Angle by Circle Dividers                                    | Measuring projector   |
|     | Optical polygons (12 faces)                                 | Measuring microscope  |
|     | Index table   | Coordinate measuring machine                                |
|     | Rotary table, rotary encoder scale                          | length scale  |
|     | Reduced uncertainty, u<0,2"                                 | Straightness <1000 mm                                       |
|     | Small-angle Generators                                      | Coordinate measuring machine, inspection 10360-2            |
|     | Sine (bar, table)   | Tachymeter  |
|     | Angle instruments   | Length scale  |
|     | Autocollimator  | Angular scales; (also theodolite)                           |
|     | Reduced uncertainty u<0,02"                                 | Laser scanner   |
|     |   |   |
|     | Electronic level (frame type) Electronic level              | Motion (translation, angle) stage                           |
|     | Clinometers   | Roundness measuring machine Cylindricity measuring machine  |
|     | Sprit (bubble) level  | Form-measuring machine                                      |
|     | • • •   | Hardness  |
|     | Sprit (bubble) level (frame type)                           |   |
|     | Theodolite (see Form/ Tachymeter/ Angular scales)           | Hardness indenter   |
|     | Optical level   | 7.6 Microscope calibration standards                        |
|     | (bevel) protractor  | 1-D grating, SPM calibration standard                       |
|     | Squareness tester   | (diffraction measurement) Pitch                             |
|     | Angle artifacts   | 2-D grating, SPM calibration standard                       |
|     | Angle block   | (diffraction measurement) Pitch, x&y                        |
|     | 90° square  | Orthogonality (to the same grating)                         |
|     | Knife edge square   | 1-D grating, SPM calibration standard                       |
|     | Steel square  | (AFM measurement) Pitch                                     |
|     | Granite square  | Step height by AFM  |
|     | Frame square  | 2-D grating, SPM calibration standard                       |
|     | Cylinder square   | Pitch, x&y  |
|     | Cone (taper) gauge  | Othrogonality (to the same grating)                         |
|     | Angle Prisms  | Step height by AFM  |
|     | Optical square (pent prism)                                 | Flatness (to the same grating)                              |
|     | Retro reflector   | Step height standard for SPMs                               |
| 7.5 | Form  | Step height   |
|     | Shaft alignment instrument                                  | Flatness standard for SPMs                                  |
|     |   | Other microscope standards, see line scales above           |

Calibration services 2026 Page 3 (6)

#### Various dimensional Hand instruments

External micrometer

0 - 50 mm

51 - 500 mm

501 - 3000 mm

Micrometer head

Depth micrometer

Depth micrometer setting device

Caliper

0 - 150 mm

151 - 500 mm

> 500 mm

Depth gauge

Internal two-point (bore) micrometer

Basic equipment

Extra part(s)

Internal three-point micrometer

Dial gauge, dial test indicator

0 - 10 mm

10 - 25 mm

> 25 mm

Diameter gauge

Thickness gauge

Tachometer, contact type

Melt viscosity instrument nozzle

#### 7.8 Measuring services

Surface roughness measurements

Flatness measurements

interferometric

mechanical

Machine tool measurements

- Position accuracy measurements

According to VDI/GDO-3441 or to ISO 230/2

- Positioning during adjustment

- Geometrical measurements

- Test piece measurements

-Angular deviations of movement

Roundness measurements

Cylindricity measurements

Form measurements

Atomic force microscopic measurements

Electronic force microscopy measurements

3-D measurements with CMM

contact probe (Legex)

optical probe (Quick Vision)

XCT measurements for industrial artefacts

Orifice plate

Other measuring services

#### 7.9 Other service

Identification marks

Ultrasound cleaning

Burr removing

Evalutation of measuring results

Expert service

### Time and Frequency

df/f, dT/T, uncertainty < 0.001 ppm

Rubium and cesium oscillators,

GPS timing receivers, etc.

df/f, dT/T, uncertainty 0.001-1 ppm

TCXO etc.

df/f, dT/T, uncertainty over 1 ppm

Tachometers, stroboscopes,

electronic watches, etc.

Point frequency adjustment

NTP service

Expert services

#### Electricity

#### DC voltage

DC voltage standards, single voltage level

#### DV current

Basic fee includes one measuring range

10 fA - 100 nA

100 μA – 1 A

see also multimeters and calibrators

1 A - 20 A

20 A - 600 A

#### 9.3 Resistance

DC calibrations

10 mohm - 1 Mohm (< 150 mA, < 100 mW, <100 V)

0,1 mohm - 1 ohm (150 mA - 100 A, < 100 W)

1 Mohm - 100 Mohm (< 100 V)

1 Mohm - 100 Tohm (< 1 kV, < 10 mW)

Power dependence of resistance standards

Temperature dependence of resistance standards 20...25 °C

#### AC voltage

Thermal converters, 45-60 Hz

Uncertainty < 400 ppm

Current transformers 0,1 A - 2500 A

Current transformers over 2500 A

Current transformers, uncertainty under 400 ppm

#### High voltage

DC voltage

DC voltage measuring system

1 kV - 50 kV

50 kV - 200 kV

200 kV - 1000 kV

1000 kV - 1200 kV

DC linearity test

#### AC voltage

AC voltage measuring system

1 kV - 40 kV

40 kV - 100 kV

100 kV - 200 kV

200 kV - 500 kV AC linearity test

High voltage probe (ac or dc / ac and dc)

ac or do

ac and dc

Voltage transformer

1 kV - 40 kV

40 kV - 100 kV 100 kV - 200 kV

Capacitance and inductance

Capacitance

High voltage capacitance and tand

Inductance

Inductance and losses

Calibration of capacitance bridge

High voltage on-site calibrations

#### Pulse calibrations

LI measuring system

1 kV - 10 kV

10 kV - 200 kV

200 kV - 400 kV Step response measurement

Linearity test

SI measuring system

1 kV - 200 kV

Step response measurement

Linearity test

Impulse calibration

Digital recorder

Impulse calibrator

Step response measurement

PD-calibrator, 5 measurement points PD measuring system (detector), 1-phase / 1-channel

Surge-tester calibration

Impulse current

ESD-tester calibration

On-site pulse calibrations

Calibration services 2026 Page 4 (6)

#### 9.7 Calibrators

Examples of calibrated devices: Fluke 5700 A, Fluke 5500 A

Basic calibration at about 80 measurement points

Calibration at specific points

Calibrator, basic calibration

#### 9.8 Tester calibrators

Examples of calibrated deivices: Fluke 5320A, 5322A

#### Multimeters 9.9

Fees include basic functions (DCV, ACV, DCI, ACI,R)

Additional functions (temperature, capacitance, etc.)

according to a separate offer

Reference multimeters, e.g. Keysight 3458 A, Fluke 8508A

basic calibration at about 80 measurement points

Mid-level devices, e.g. Keysight 34450A

Basic devices, e.g. Fluke 79

#### 9.10 Insulation resistance meters

up to 100 GOhm

up to 100 TOhm

#### 9.11 Oscilloscopes

Single channel

#### 9.12 Laboratory power sources

Single output

#### 9.13 Electronic loads

Single channel

#### 9.14 Amplifiers

Transconductance amplifiers

Examples of calibrated devices: Datron 4600, Fluke 5220 A

Basic calibration at about 30 measurement points

Calibration at specific points

Voltage amplifiers

Examples of calibrated devices: Fluke 5205 A

Basic calibration at about 20 measurement points

Calibration at specific points

#### 9.15 Electric power

Basic fees include ca. 20 measurement points

Electric power, 1-phase unc. 0.005%-0.05%

Electric power, 1-phase unc. 0,05%-0,5%

Electric power, 1-phase unc. over 0,5%

Electric power, 3-phase unc. 0.01%-0.05%

Electric power, 3-phase unc. 0,05%-0,5% Electric power, 3-phase unc. over 0,5%

Electric power, additional measuring points

#### 9.16 Capacitance standards

Basic calibration

### 9.17 Inductance standards

Basic calibration

#### 9.18 High frequencies

Cal. factor of RF & MW power sensor

10 MHz - 18 GHz,

1 mW, 25 points, reflection coefficients

Reference supply of a power sensor

Attenuation

10 MHz - 6 GHz, 0 - 80 dB,

6 GHz - 18 GHz, 0 - 60 dB,

40 points, reflection coefficients

### 9.19 Other services in electricity

Adjustment of measuring devices

Expert services

Measurement services, working time (h)

#### 10 Acoustics

Sound calibrators: single frequency calibrators

Sound calibrators, e.g. B&K 4226

Microphones LS1P or LS2P

Reciprocity calibration, 31,5 Hz - 10 (20) kHz,

including 26 frequencies or more

Comparison method, 31,5 Hz - 16 kHz,

including 11 frequencies, for LS2P only

Accelerometers, 10 Hz - 10 kHz

Sensitivity and phase, including 31 frequencies

Accelerometers, 0,4 Hz -160 Hz

Sensitivity and phase, including 27 frequencies

Portable vibration loggers

Portable vibration calibrators, e.g. PCB 394C06

Other vibration measurement devices

Vibration measurement of constructions

Expert services

#### High Capacity Weight \*

High capacity weight M1-M2, 20 kg - 2000 kg

#### 12 Force \*

#### Calibrations according to standard

FN ISO 376 calibration one direction

0.1 - 1.1 MN

10 - 100 kN

1 - 10 kN

0,1 - 1 kN

EN ISO 376 calibration two directions

0,1 - 1,1 MN

10 - 100 kN

1 - 10 kN

0,1 - 1 kN

< 0,1 kN

Applied calibration EN ISO 376,

2 posit. 1-direction

0,1 - 1,1 MN

10 - 100 kN

1 - 10 kN

0,1 - 1 kN

< 0.1 kN

Applied calibration EN ISO 376,

2 posit. 2-direction

0.1 - 1.1 MN

10 - 100 kN

1 - 10 kN 0.1 - 1 kN

< 0,1 kN

#### 12.2 Charge of standards/hour

0.1-1.1 MN. FSTM no 4

10-100 kN, FSTM no 3

1-10 kN, FSTM no 2

0.1-1kN FSTM no.1 < 0,1 kN, FSTM no 5

#### 12.3 Scale calibration in the force standard

#### (crane scales, aircraft scales and all types of scales which are similar to these, single point load)

Calibr. of weighing instrument in FSM m > 11 t

Calibr. of weighing instrument in FSM m = 1,2 t - 11 t

Calibr. of weighing instrument in FSM m = ≤ 1,1 t

#### Axle load weighing instrument 6 t or 10 t 12.4 Special devices

Calibration of adhesiotester

## 13 Torque \*

## Torque wrenches

Calibration of wrench, 1-dir, M ≤ 2 kNm/piece

Add charge for second direction, M ≤ 2 kNm/piece

Additional charge for electrical tools/piece

Charge for measurement points more than 3

#### Tools with actuator 13.2

One measuring point

M ≤ 2 kNm

Additional points

 $M \le 2 \text{ kNm}$ 

#### 13.3 Torque wrench calibration devices

Devices with torque transducers

 $M \le 2 \text{ kNm}$ 

one direction

two directions

Cal. of tool torque tester with rider beam

#### 13.4 Torque transducer calibration

## According to EURAMET cg-14 (EA-10/14)

M ≤ 50 Nm 1-direction

M ≤ 50 Nm 2-directions

50 Nm < M < 2 kNm 1-direction

50 Nm ≤ M ≤ 2 kNm 2-directions

2 kNm < M ≤ 20 kNm 1-direction

2 kNm < M ≤ 20 kNm 2-directions If two measuring bridges are calibrated from the same transducer at the same time the price is multiplied by 1.25

Calibration services 2026 Page 5 (6)

#### 14 Liquid Flow\*

Liquid flow meter calibration, reference standard D100, 15 < DN ≤ 50 Liquid flow meter calibration, reference standard D500, 150 < DN ≤ 500 Liquid flow meter calibration, national standard D200, 10 < DN ≤ 200

#### 14.1 Charge of liquid flow standards/hour

Reference standard D100, 15 < DN ≤ 50 Reference standard D500, 150 < DN ≤ 500 Reference standard D200, 10 < DN ≤ 200

#### 15 VTT MIKES Kajaani, other services\*

Expert service Comparison

#### 16 Other basis of charge (shipment)

Shipment costs within Finland (not insured)

m < 7,5 kg 7,5 kg < m < 15 kg 15 kg < m < 30 kg 30 kg < m < 70 kg

Large package surcharge (in addition to shipment costs)

- package's length plus girth [(2 x width) + (2 x height)] combined exceeds 330 cm, but does not exceed 419 cm

Special shipment (package over maximum limits)

- actual weight > 70 kg, or length exceeds 270 cm, or length plus girth [(2 x width) + (2 x height)] combined exceeds 419 cm

Shipment cost according to an agreement

#### Expert services, guides

Expert service for measurement problems

RR-test for measurement process

Expert service for setting up calibration system

Calibration instruction CD for dimensional measuring instruments

Calibration instructions, no. pc.

S. Saxholm, M. Rantanen, Measurement of pressure, 38 pp. (in Finnish)

#### 18 Other services

Certificates and document copies

Publications

Travel costs

Kilometer allowance

Daily allowance

Travelling time

Expert services

Other services, metrology

MIKES-AALTO, Metrology Research Institute, calibrations

Meeting fee

Other products (metrology)

Rent of premises

\* performed in VTT MIKES Kajaani

#### **ADDRESSES**

#### VTT MIKES (Espoo, Otaniemi)

Post address: Street and cargo address:

PI 1000 Tekniikantie 1 FI- 02044 VTT FI-02150 ESPOO Finland Finland

#### VTT MIKES Kajaani

Post address: Street address: Tehdaskatu 15 Tehdaskatu 15 Puristamo 9P19 Puristamo 9D17 FI-87100 KAJAANI FI-87100 KAJAANI

Finland Finland

Cargo address: Sokaiärventie 9 Puristamo 9D3 FI-87100 KAJAANI

Finland

#### Other contact informatic

Fmail: kalibroinnit@vtt fi Tel. Exchange: +358 20 722 111

#### TERMS OF CONTRACT AND DELIVERY

The calibration will be performed in accordance with the valid scope of competence.

However, the total measurement uncertainty of the calibration may be larger than indicated in our valid scope of competence due to the device being calibrated.

The calibration shall be invoiced after the work has been completed unless otherwise agreed. Invoices shall be paid within 21 days of the date of the invoice. Interest on overdue payments shall be charged in accordance with the Finnish Interest Act (633/1982).

#### Other terms

VTT has a right to mention the Commission and the name of the Client as a reference.

The VTT General Terms of Contract\* will apply to the Commission with the following exceptions:

- Section 7 does not apply to calibration commissions.
- Failure of the measurement standard shall be considered as Force Majeure and VTT shall be released from its obligations under the Contract.

\* the general terms of contract of the VTT Technical Research Centre of Finland: https://www.vttresearch.com/sites/default/files/files/vtt\_general\_terms.pdf

Unless otherwise agreed upon, an electronically signed calibration certificate or measurement report is delivered to the client as an unencrypted e-mail. Field calibration costs are always case-specific

The adjustment of the measurement instrument is not included in calibration; the adjustment of the instrument must be separately agreed.

The statement of conformity to a specification or standard for the calibration (e.g. pass/fail, in-tolerance/out-of-tolerance) is usually not part of the calibration; the reporting of the statement of conformity must be separately agreed.

### Sales tax. VAT

Value added tax (VAT) and any other taxes and fees imposed by foreign authorities shall be added to the price, when applicable.

#### Urgency fee

If a calibration is performed urgently as per the client's request thereby bypassing other jobs in queue, the calibration fee may be charged in double.

Before delivering the measurement instruments to VTT MIKES the client has to agree with VTT MIKES about the calibration and its delivery time.

An accompanying letter must be sent with the device/devices detailing:

- instrument to be calibrated, the scales to be measured, measuring points etc.
- contact information including invoicing and delivery addresses.

The client must also include the preferred return method for the device. VTT MIKES will return the devices sent for calibration

in the client's packaging and will insure the shipment if specifically requested by the client.

VTT MIKES is not responsible for any instrument damage during transportation or shipment.

Possible transportation and shipment costs will be charged from the customer.

Calibration services 2026 Page 6 (6)