

We offer calibration and validation of measuring instruments in accredited laboratory.

Metrological Laboratory

calibration of measuring instruments

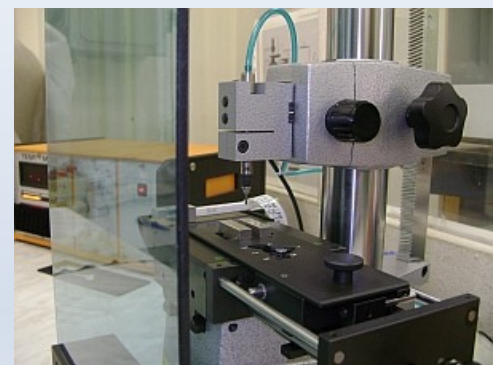
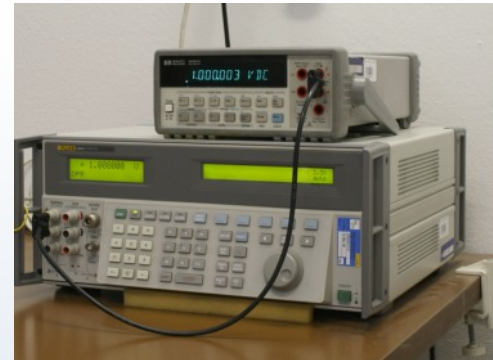
Accreditation Certificate No. K 021 granted by the Slovak National Accreditation Service according to STN EN ISO/IEC 17 025.

CALIBRATION OF MEASURING INSTRUMENTS IN MEASURING RANGES:

- **Length up to 500 mm**
End gauges, callipers, micrometer measures, dial and lever deviation meters, double-contact gap measures, fixed and folding internal micrometers, cylindrical calibres and measuring wires for threads.
- **Length up to 10 000 mm**
Line measures, bottling meters, measuring tapes.
- **Pressure from -0,1 MPa to +350MPa**
Manometers, vacuum - meters, mano/vacuum - meters, indicating and digital with flexible and sensitive elements, manometers for welding technique, measuring pressure transducers (sensors), registration barometers, indication and registration differential barometers, control manometers and vacuum - meters, barometers with senders - of 0,1 % accuracy class. It provides service of deformation barometers.
- **Torque from 0,05 Nm to 2000 Nm**
Torque wrenches torsion and diffraction (signal), devices for torque wrenches control and torque sensors.
- **Temperature from -70°C to +1200 °C**
Glass thermometers, resistance temperature sensors of Pt100 type, thermoelectric temperature sensors of J, K, L, M, T type, thermometers with analogue and digital output.
- **Humidity from 6 to 95 % RH**
- **Force**

Dynamometer	0,5 N - 200 kN
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- **Electric quantities**

Voltage	DC 10 mV - 10 000V AC 10 mV - 1 000 V
Current	DC 10 μ A - 20 A / 1 000 A AC 100 μ A - 20 A / 1 000 A
Electrical resistance	10 Ω - 100 M Ω
Ohmmeters	1 Ω - 12 G Ω
Power	0,1mW - 20kW at DC 10 mV - 1000V / 0,1 mA - 20 A 0,1mW - 20kW at AC 10 mV - 1000V / 1mA - 20A / up to 10 kHz
Oscilloscopes	up to 1 GHz
Frequency measures (not scalers)	20 mHz - 1 GHz
RLC meters	
- **Time**
Residual current devices - 10 ms - 5s
break time



METROLOGICAL LABORATORY

verification of legal measuring instruments

Authorisation Decree issued by the Slovak Office of Standards, Metrology and Testing for:

- **torque wrenches up to 2000 Nm**
- **water-meters for cold water up to nominal flow $Q_n = 10 \text{ m}^3 \text{ h}^{-1}$**
- **water-meters for hot water up to nominal flow $Q_n = 3 \text{ m}^3 \text{ h}^{-1}$**

Authorised Metrological Workstation has an assigned verification mark with registration number **M 47**.



Authorisation Decree issued by the Slovak Office of Standards, Metrology and Testing for:

- **pressure gauges for measurement of the tire pressure of motor vehicles**

Authorised Metrological Workstation has an assigned verification mark with registration number **M 91**.



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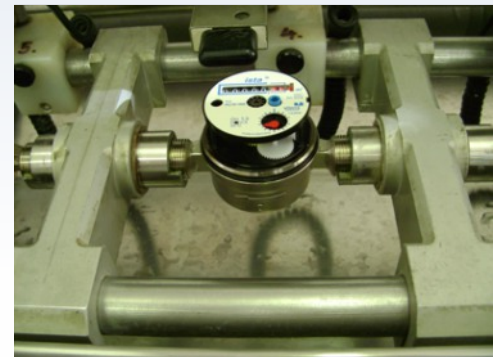
www.tsu.eu

calibration of measuring instruments

Accreditation granted by the Slovak National Accreditation Service No. K 021 according to STN EN ISO/IEC 17 025.

Laboratory offers calibration of:

- **sound level meters and integrating-averaging sound level meters**
- **band-pass filters**
- **measuring microphones**
- **acoustics calibrators**
- **personal sound exposure meters**
- **vibration meters and accelerometers**
- **calibrators of the mechanical vibrations**



verification of legal measuring instruments

Authorisation Decree of The Slovak Office of Standards, Metrology and Testing for verification of legal acoustics measuring instruments:

- **verification of the sound level meters and integrating-averaging sound level meters**
- **verification of the band-pass filters**
- **verification of the measuring microphones**
- **verification of the personal sound exposure meters**
- **verification of the acoustic calibrators**

Authorised Metrological Workstation has an assigned verification mark **M** with registration number **47**.



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