



ORDER

№ A 244

Sofia, 14.06.2024

Pursuant to Art. 10, para. 1, items 3 and 4, Art. 28, par. 1 and Art. 30, para. 1 of the Law on National Accreditation of Conformity Assessment Bodies, items 6 and 7 of the BAS QR 2 Accreditation procedure, in connection with an open procedure reg. № 1/3 ЛК/ПА/РО/18.01.2024 assessment report reg. № 1/3 ЛК/6/В/15.03.2024, declaration reg. № 1/3 ЛК/7/Р/15.03.2024, report G2 Section reg. № 1/3 ЛК/14/В/09.05.2024, declaration reg. № 1/3 ЛК/10/Р/16.04.2024 and statement of the Accreditation Commission reg. № 1/3 ЛК/ПА/РО/16/В/05.06.2024, I hereby

RE-ACCREDIT

**METROLAB LTD
INTERLAB LABORATORY COMPLEX**

Management Address: 1359 Sofia, Lyulin, Bl. 408, Ent. A, Floor 2, Apt. 11
Laboratory Address: 1574 Sofia, Slatina, 13 Prof. Tsvetan Lazarov Blvd.

To perform calibrating of:

Type of the scope: <i>fixed</i>					
№	Measuring instrument	Measured value, unit of measure	Measurement Range	Measurement uncertainty	Calibration method
1	2	3	4	5	6
1.	Non-automatic scales, Accuracy class I	Mass, Kg	up to 0,5 Kg	$1,1 \cdot 10^{-5}$ g	LKI 08-05:2024
	Accuracy class II		up to 1 Kg	$8,9 \cdot 10^{-4}$ g	
			up to 10 Kg	$6,5 \cdot 10^{-2}$ g	
			up to 60 Kg	0,1 g	
	Accuracy class III and IIII		up to 1 Kg	0,01 g	
			up to 10 Kg	0,2 g	
2.	Wind velocity measuring devices	Velocity m/s	from 0,15 m/s to 2,04 m/s	0,060 m/s	LKI 10-05:2024
			from 2,02 m/s to 29,83 m/s	from 0,06 m/s to 0,5 m/s	
3.	Thermometers (digital, analog)	Temperature, °C	from minus 50°C to 20°C	from 0,3 °C to 0,05 °C	LKI 14-11:2024

Type of the scope: <i>fixed</i>					
Nº	Measuring instrument	Measured value, unit of measure	Measurement Range	Measurement uncertainty	Calibration method
1	2	3	4	5	6
			from 20°C to 400 °C	from 0,05 °C to 0,3 °C	
			from 400°C to 700 °C	from 0,3 °C to 2,2 °C	
			from 700°C to 1200 °C	from 2,2 °C to 3,0 °C	
4.	Infrared thermometers	Temperature, °C	from 20°C to 350 °C	from 0,4 °C to 0,8 °C	LKI 14-11:2024
5.	Thermometers (glass - liquids)	Temperature, °C	from minus 50°C to 20 °C	from 0,3 °C to 0,05 °C	LKI 13-11:2024
			from 20°C to 200°C	from 0,05 °C to 0,19 °C	
			from 200°C to 600°C	from 0,19 °C to 2,2 °C	
6.	Temperature measuring transducers	Temperature, °C	Resistive - from minus 50 °C to 100°C	from 0,18 °C to 0,25 °C	LKI 15-06:2024
			over 100 °C to 400°C	from 0,25 °C to 1,3 °C	
			thermocouple from minus 50°C to 400°C	0,48 °C	
			over 400 °C to 1200°C	from 0,49 °C to 1,6 °C	
7.	Secondary appliances, temperature indicators	Temperature, °C	Input for a thermal transformer (RTD) from minus 40 °C to 600 °C	0,1 °C	LKI 16-06:2024
			Input for thermocouples (TC) from minus 40 °C to 1200 °C	up to 0,4 °C	
8.	Instruments for relative humidity measuring	Relative humidity, % rh	from 20 % rh to 85 % rh	from 1,2 % rh to 1,4 % rh	LKI 12-09:2024
9.	pH Meters	Hydrogen index pH	from 2 pH to 12 pH	from $1,8 \cdot 10^{-2}$ pH to $5 \cdot 10^{-2}$ pH	LKI 09-05:2024
10.	Conductometers	Specific conductivity of electrolytes, μ S/cm; mS/cm	from 1,3 μ S/cm to 111,3 mS/cm	from 0,02 μ S/cm to 1,6 mS/cm	LKI 01-09:2024
11.	Calorimeters	Combustion energy J/g	from 26400 J/g to 26600 J/g	6 J/g	LKI 04-09:2024

Type of the scope: <i>fixed</i>					
Nº	Measuring instrument	Measured value, unit of measure	Measurement Range	Measurement uncertainty	Calibration method
1	2	3	4	5	6
12.	Spectrophotometers for the ultraviolet and visible areas for the wavelength	Spectral coefficient of $\tau(\lambda)$, % transmission, geometry % relative to air	from 7 % to 93 % at λ from 250 nm to 820 nm	from 0,28 % to 1,4 %	LKI 07-04:2024
		Spectral optical density, $D(\lambda)$, geometry % relative to air	from 0,02 to 1,12 at λ from 250 nm to 820 nm	from $7 \cdot 10^{-3}$ to $1,2 \cdot 10^{-2}$	LKI 07-04:2024 method of calculation
		Wave length λ , nm	from 241 nm to 638 nm	from 0,3 nm to 1 nm	LKI 07-04:2024

References:

1. LKI 01-09:2024 Methodology for the calibration of conductivity meters using certified comparative materials for the specific electrical conductivity of electrolytes.
2. LKI 04-09:2024 Calorimeter calibration methodology.
3. LKI 07-04:2024 Methodology for the calibration of spectrophotometers operating in the ultraviolet and visible area of the optical spectrum.
4. LKI 08-05:2024 Methodology for the calibration of non-automatic scales.
5. LKI 09-05:2024 Methodology for the calibration of pH meters.
6. LKI 10-05:2024 Methodology for the calibration of instruments for measuring air velocity.
7. LKI 12-09:2024 Methodology for the calibration of devices for measuring relative humidity of the air.
8. LKI 13-11:2024 Methodology for the calibration of glass-liquid thermometers.
9. LKI 14-11:2024 Methodology for the calibration of digital, analog and infrared thermometers.
10. LKI 15-06:2024 Methodology for the calibration of measuring temperature transducers.
11. LKI 16-06:2024 Methodology for the calibration of secondary temperature measuring instruments.

Notes:

1. The calibration of the measuring instruments, referred to in item 2, shall be performed in the laboratory.
2. The calibration of the measuring instruments referred to in item 3, item 4, item 5, item 6, item 7, item 8, item 9, item 10 and item 12 shall be performed in the laboratory, or at the customer's site.
3. The calibration of the measuring instruments referred to in items 1 and 11 shall be performed on site at the customer's location.

I ORDER

To issue the certificate of accreditation reg. № 3 ЛК/14.06.2024 valid until 14.06.2028 and this order enclosed as an integral part of it.

The certificate of accreditation with the enclosure should be obtained from the Manager/Representative of Metrolab Ltd, the head of Interlab Laboratory Complex at Metrolab Ltd, or other authorized person in the office of EA BAS.

Upon receipt of the certificate issued and enclosure, the accredited person is obliged to return to EA BAS the originals of certificate of accreditation reg. № 3 ЛК/13.10.2023 and its enclosure, EA BAS order reg. № A 442/13.10.2023.

This order shall be notified to the legal entity, within 3 (three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

