



**ORDER**

**№ A 442**

**Sofia, 13.10.2023**

Pursuant to Art. 10, para. 1, item 2a of the Law on National Accreditation of Conformity Assessment Bodies, item 5.3.1 in connection with amendment of an element of the certificate content, according to item 4.3.8. of the BAS QR 2 Accreditation Procedure and EA BAS order reg. № A 441/13.10.2023, I hereby

**AMEND**

EA BAS order reg. № A 655/22.10.2021, an integral part of certificate of accreditation reg. № 3 ЛК/22.10.2021, valid until 15.05.2024 as follows:

**Metrolab OOD**  
**Laboratory Complex Interlab**  
**UIC: 206477195**

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

**To perform calibrating of:**

Type of the 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 weighing instruments	mass, kg			LKI 08-05:2020
	Accuracy class I		Up to 0,5 kg	1,8.10 <sup>-4</sup> g	
	Accuracy class II		From 0,5 kg to 60 kg	From 1,8.10 <sup>-4</sup> g to 2 g	
	Accuracy class III		from 60 kg to 150 kg	from 2 g to 5 g	
2.	Devices for measuring air flow velocity	Velocity, m/s	from 0,137 m/s to 2,000 m/s	from 0,060 m/s to 0,095 m/s	LKI 10-05:2020
			from 2,000 m/s to 30,17 m/s	from 0,095 m/s to 0,51 m/s	
3.	Liquid-in-glass thermometers	Temperature, °C	From minus 50°C to 20°C	from 0,3°C to 0,09°C	LKI 13-11:2020
			from 20°C to 200°C	from 0,09 °C to 0,3 °C	
			from 200°C to 600°C	from 0,3°C to 1,2 °C	
4.	Digital thermometers Manometric and bimetallic	Temperature, °C	From minus 50°C to 20°C	from 0,3°C to 0,09°C	LKI 14-11:2020
			from 20°C to 200°C	from 0,09°C to 0,3 °C	

Type of the 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
	thermometers		from 200°C to 1200 °C	from 0,3°C to 2,5°C	
5.	Thermocouples	Temperature, °C	From minus 50°C to 1200 °C	from 1,2°C to 2,4 °C	LKI 11-05:2020
6.	Ultraviolet and visible spectrophotometers	Spectral transmittance $T_\lambda$ , %, geometry % to air	from 8 % to 93% with $\lambda$ from 257 nm to 690 nm	from 0,1 % to 1%	LKI 07-04:2020
		Spectral optical density, $D_\lambda$ , geometry % to air	from 0,03 to 1.1 with $\lambda$ from 257 nm to 690 nm	or $5 \cdot 10^{-3}$ to $8 \cdot 10^{-3}$	LKI 07-04:2020 Calculation method
		Wavelength, $\lambda$ , nm	from 241 nm to 638 nm	from 0,3 nm to 1 nm	LKI 07-04:2020
7.	pH meters	Hydrogen indicator	from 2 to 12	from $1,5 \cdot 10^{-2}$ to $3,10^{-2}$	LKI 09-05:2020
8.	Conductometers	Specific conductivity mS/cm	from $1,3 \cdot 10^{-3}$ mS/cm to $111,3 \cdot 10^{-3}$ mS/cm	from $0,4 \cdot 10^{-5}$ mS/cm to $0,8 \cdot 10^{-5}$ mS/cm	LKI 01-09:2020
9.	Calorimeters	Heat of combustion, J/g	from 26400 J/g to 26600 J/g	6 J/g	LKI 04-09:2020
10.	Devices for measuring relative air humidity	Relative humidity %rh	from 20 %rh to 85 %rh	from 1,2%rh to 1.4%rh	LKI 12-09:2020

#### References:

1. LKI 01-09:2020 Methodology for calibration of conductometers.
2. LKI 04-09:2020 Methodology for calibration of calorimeters
3. LKI 07-04:2020 Methodology for calibration of spectrophotometers
4. LKI 08-05:2020 Methodology for calibration of non-automatic weighing instruments
5. LKI 09-05:2020 Methodology for calibration of pH meters
6. LKI 10-05:2020 Methodology for calibration of devices for measuring air flow velocity
7. LKI 11-05:2020 Methodology for calibration of thermocouples
8. LKI 12-09:2020 Methodology for calibration of devices for measuring relative air humidity
9. LKI 13-11:2020 Methodology for calibration of liquid-in-glass thermometers
10. LKI 14-11:2020 Methodology for calibration of digital thermometers, manometric and bimetallic thermometers

#### Notes:

1. The calibration of the measurement devices in items 2, 3, 4 and 10 was carried out in the laboratory.
2. The calibration of the measurement devices in items 5, 7 and 8 was carried out in the laboratory or at the client's site.
3. The calibration of the measurement devices in 1, 6 and 9 was carried out at the client's site

## **I ORDER**

To issue the certificate of accreditation reg. № 3 ЛК/13.10.2023 valid until 15.05.2024 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 OOD, the head of Laboratory Complex Interlab at Metrolab OOD, 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/22.10.2021 and its enclosure, EA BAS order reg. № A 655/22.10.2021.

This order shall be notified to the Laboratory Complex Interlab at Metrolab OOD, within 3 (three) days from its issuance.

**Eng. Irena Borislavova**

*Executive Director of EA BAS*

