



ORDER

№ A 45

Sofia, 25.01.2024

Pursuant to Art. 10, para. 1, item 2a, of the Law on National Accreditation of Conformity Assessment Bodies, item 7(1) and item 5.3.1 in connection with amendment of an element of the certificate content, according to item 4.3.8. f) of the BAS QR 2 Accreditation Procedure, an open procedure reg. № 26/23 ЛК/ПО/26.05.2023, report reg. № 26/23 ЛК/ПО/3/В/14.07.2023 and EA BAS order, reg. № A 44/25.01.2024, I hereby

AMEND

EA BAS order reg. № A 280/29.04.2022

of EMSYST-6 LTD.

CALIBRATION LABORATORY EMSYST

Management and Laboratory address:

1784, Sofia, 133 Tsarigradsko Shosse Blvd, BIC IZOT, Office 304.

To perform calibrating of:

Type of the scope: <i>Fixed</i>					
№	Measuring Instrument	Measure and, Measure ment Unit	Measurement Range	Measurement Uncertainty	Calibration Method
1	2	3	4	5	6
1	Standard Electricity Meters-Electronic, Single-Phase and Three-Phase for Active Energy	Electrical Energy, Active, kWh	Per phase From 1,25 Ws to 21,6.10 ⁶ Ws Voltage (U): from 50 V to 300 V Current (I): from 0,05 A to 120 A Power Factor: from 1 to 0,5 lagging, or from 1 to 0,8 leading Time from 1 s to 600 s	0,020 % for cos phi = 1 U ≤ 230 V 0,025 % for cos phi = 1 U > 230 V and for cos phi = 0,5 i/ cos phi = 0,8 c U ≤ 230 V I ≤ 12 A 0,030 % for cos phi = 0,5 i/ cos phi = 0,8 c I > 12 A	WI 7.6.1-1 № E-MK-01/20

Type of the scope: Fixed

Nº	Measuring Instrument	Measure and, Measure ment Unit	Measurement Range	Measurement Uncertainty	Calibration Method
1	2	3	4	5	6
2	Standard Electricity Meters - Electronic, Single-Phase and Three-Phase for Reactive Energy	Electrical Energy, Reactive, kvarh	<p>Per phase From 0,625 vars to 21,6.10⁶ vars</p> <p>Voltage (U) from 50 V to 300 V</p> <p>Current (I) from 0,05 A to 120 A</p> <p>Power Factor from 1 to 0,25 lagging, or leading</p> <p>Time from 1 s to 600 s</p>	<p>0,025 % for sin phi = 1 U ≤ 230 V</p> <p>0,030 % for sin phi = 1 U > 230 V</p> <p>and for sin phi = 0,25 i/c U ≤ 230 V I ≤ 12 A</p> <p>0,035 % for sin phi = 0,25 i/c I > 12 A</p>	WI 7.6.1-1 Nº E-MK-01/20
3	Fixtures with Standard Electronic Electricity Meter for Metrological Verification of Electricity Meters, Single-Phase and Three-Phase, for Active and Reactive Energy	Electrical Energy, Active, kWh, and Reactive, kvarh	<p>Electrical Energy, Active per phase from 1,25 Ws to 21,6.10⁶ Ws</p> <p>Voltage (U) from 50 V to 300 V</p> <p>Current (I) from 0,05 A to 120 A</p> <p>Power Factor 1 to 0,5 lagging, or from 1 to 0,8 leading</p> <p>Time from 1 s to 600 s</p> <p>Electrical Energy, Reactive per phase From 0.625 vars to 21,6.10⁶ vars</p> <p>Voltage (U) from 50 V to 300 V</p> <p>Current (I) from 0,05 A to 120 A</p> <p>Power Factor 1 to 0,25 lagging, or leading Time</p>	<p>0,020 % for cos phi = 1 U ≤ 230 V</p> <p>0,025 % for cos phi = 1 U > 230 V</p> <p>and for cos phi = 0,5 i/ cos phi = 0,8 c U ≤ 230 V I ≤ 12 A</p> <p>0,030 % for cos phi = 0,5 i/ cos phi = 0,8 c I > 12 A</p> <p>0,025 % for sin phi = 1 U ≤ 230 V</p> <p>0,030 % for sin phi = 1 U > 230 V</p> <p>and for sin phi = 0,25 i/c U ≤ 230 V I ≤ 12 A</p> <p>0,035 % for sin phi = 0,25 i/c I > 12 A</p>	WI 7.6.1-4 Nº EY-MK-04/20

Type of the scope: <i>Fixed</i>					
Nº	Measuring Instrument	Measure and, Measure ment Unit	Measurement Range	Measurement Uncertainty	Calibration Method
1	2	3	4	5	6
			from 1 s to 600 s		
4	Flow Rate Meters and Portable Flow Rate Meter Stations, Using Water as Operating Fluid With range from 0,006 m ³ /h to 70,0 m ³ /h	Volume, m ³	From 0,001 m ³ to 0,3 m ³ For range: from 0,006 m ³ /h to 30,0 m ³ /h For range: from 30,0 m ³ /h to 70,0 m ³ /h	0,10 % 0,20%	WI 7.6.1-2 Nº P-MK-01/20

References:

1. WI 7.6.1-1 Nº E-MK-01/20 Calibration Methodology for Standard Electronic Electricity Meters, validated on 17.07.2020.
2. WI 7.6.1-4 Nº EY-MK-04/20 Calibration Methodology for Fixtures with a Standard Electricity Meter for Metrological Verification of single-phase and three-phase electricity meters for active and reactive energy, validated on 17.07.2020.
3. WI 7.6.1-2 Nº P-MK-01/20 Calibration Methodology for Flow Rate Meters and Portable Flow Rate Meter Stations, validated on 03.09.2020.

Notes:

For measurement instruments of positions 1, 2 and 3, the calibrations shall be carried out in the laboratory premises, and on the customer's site.

For measurement instruments of position 4, the calibrations shall be carried out only in the laboratory premises.

I ORDER

To issue the certificate of accreditation reg. Nº 23 ЛК/25.01.2024, valid until 31.08.2024 and this order as an integral part of it.

The certificate of accreditation with the enclosure should be obtained from the manager / representative of EMSYST-6 LTD, head of the Calibration Laboratory EMSYST, at EMSYST-6 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 the certificate of accreditation reg. Nº 23 ЛК/29.04.2022, valid until 31.08.2024 and its enclosure - EA BAS order reg. Nº A 280/29.04.2022.

This order shall be notified to the EMSYST-6 LTD within 3(three) days from its issuance.

Eng. Irena Borislavova

Executive Director of EA BAS

