Hellenic Accreditation System

Annex F2/4 to the Certificate No. **1237**-2

SCOPE OF ACCREDITATION

of the

Calibration Laboratory

Of

Emmanouil C. Manolas (EL.E.PI.)

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
Mass Measurements			
Standard weights			Calibration of standard weights according to OIML R 111-1:2004 (E). Calibration capability up to (and including) OIML Class:
	1 kg	160 mg	M3
	2 kg	160 mg	M3
	5 kg	160 mg	M2
	10 kg	160 mg	M1
	20 kg	300 mg	M1
	500 kg	25 g	M2
Non-automatic weighing instruments	10g	3 mg	Calibration according to guide EURAMET /cg-18/v.04 (11/2015). Use of standard weights of OIML R 111 class: M1 in range 10 g to 20 kg. Max grouped load: 650 kg M2 in range 500 kg to 27 t. Max grouped load: 27 t. Calibration is performed on-site.
	20g	3 mg	
	50g	4 mg	
	100g	7 mg	
	200g	13 mg	
	500 g	33 mg	
	1 kg	55 mg	
	2 kg	110 mg	
	5 kg	270 mg	
	10 kg	550 mg	
	20 kg	1,1 g	
	500 kg	100 g	
	(500 kg to 27.000] kg	$2{,}1 \times 10^{-4}$	

	[0,6 to 3] t	$2\sqrt{(3{,}04\cdot 10^{-5}\cdot I)^2+(N-1)\cdot d^2/3}$ kg	Calibration according to guide EURAMET /cg-18/v.04 (11/2015), with use of substitution loads. Where: I, max load indication in kg, d, instrument's readability in kg and N, steps (number of substation loads + 1) Calibration is performed on-site.
	(3 to 60] t	$2\sqrt{(9{,}74\cdot 10^{-5}\cdot I)^2+(N-1)\cdot d^2/3}$ kg	

** Where the expanded uncertainty (with 95 % coverage) is accompanied by the corresponding unit, it is absolute, while where it is not accompanied by a unit, it is relative.*

The Calibration Measurement Capability (CMC) includes the measured quantity, the measurement range and the measurement uncertainty, expressing the minimum measurement uncertainty which can be achieved in a calibration.

Permanent laboratory premises address: **2nd km N.R. Katerini - Thessaloniki, 60100, Katerini.**
Approved Signatories: **E. Manolas, P. Nasios.**

This Scope of Accreditation replaces the previous one dated 06.02.2025.
The Accreditation Certificate No **1237**-2, to ELOT ISO/IEC 17025:2017, is valid until 09.02.2030.

Athens, 13.06.2025

Konstantinou Evangelos Apostolos
CEO of ESYD