Hellenic Accreditation System

Annex F2/14 to the Certificate No. **705**-5

SCOPE of ACCREDITATION

of the

Calibration Laboratory

of the

VAL ELECTRONIC L.P.

Calibration item/ Parameters	Range of measurement	Expanded measurement uncertainty (k=2)*	Remarks
Mass Measurements			
Non-automatic balances/ Mass	1 mg	0,004 mg	Calibration according to Technical Guide EURAMET cg-18 v.4.0:2015 Available OIML class standards: E1, range 1 mg to 50 g (max available load 100 g) E2, range 1 mg to 200 g (max available load 500 g) F1, range 1 g to 5 kg (max available load 10 kg) M1, range 5 kg to 200 kg All calibrations are performed on-site.
	2 mg	0,004 mg	
	5 mg	0,004 mg	
	10 mg	0,004 mg	
	20 mg	0,004 mg	
	50 mg	0,005 mg	
	100 mg	0,006 mg	
	200 mg	0,007 mg	
	500 mg	0,010 mg	
	1 g	0,012 mg	
	2 g	0,015 mg	
	5 g	0,019 mg	
	10 g	0,024 mg	
	20 g	0,030 mg	
	50 g	0,037 mg	
	100 g	0,061 mg	
	200 g	0,37 mg	
	500 g	0,97 mg	
	1 kg to 10 kg	$6,1 \times 10^{-6}$	
	20 kg to 200 kg	$6,1 \times 10^{-5}$	

Calibration item/ Parameters	Range of measurement	Expanded measurement uncertainty (k=2)*	Remarks
Temperature Measurements			
Direct reading thermometers/ Temperature: a) analog & digital b) total immersion, liquid in glass thermometers	[-25 °C to 150 °C]	0,15 °C	Internal laboratory method OE12-1 «Thermometer Calibration Method» based on recommendation DKD R-5-1:2018
	150 °C to 200 °C	0,21 °C	
Dimensional Measurements			
Callipers/ Length:			VDI/VDE/DGQ 2618, part 9.1: 2006
a) Analog / division 20 μm	Up to 200 mm	11 μm	
b) Analog / division 50 μm		29 μm	
c) Analog / division 100 μm		57 μm	
d) Digital / division 10 μm		6,0 μm	
Length / External spindle micrometers:			VDI/VDE/DGQ 2618, part 10.1: 2001
a) Analog & Digital / division 10 μm	Up to 25 mm	5,7 μm	
b) Analog & Digital / division 1 μm		0,60 μm	

** 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: **Parthenonos 1-3, GR-146 71 Nea Erithrea, Attiki, Greece.**
Approved Signatory: **A. Valelis.**

This Scope of Accreditation replaces the previous one dated 12.07.2023.
The Accreditation Certificate No. **705**-5, to ELOT EN ISO/IEC 17025:2017, is valid until 13.09.2027.

Athens, 13.09.2023

Christos Nestoras
CEO of ESYD