Hellenic Accreditation System

Annex F2/17 to the Certificate No. **490**-8

SCOPE of ACCREDITATION

of the

Calibration Laboratory

of the

High Voltage Service Providing Laboratory Unit (SPLU)

of the

School of Electrical and Computer Engineering
National Technical University of Athens

Calibration item / Parameters	Range of measurement	Expanded measurement uncertainty (k=2) *	Remarks
Electrical Measurements			
Electrostatic Discharge Generator (ESD) - DC voltage - Peak current between 10-30 ns - Current at 30 ns - Current at 60 ns - Rise time	 100 V to 32 kV 0,5 A to 50 A 0,5 A to 50 A 0,5 A to 50 A 500 ps to 10 ns	 1 % 5 % 5 % 5 % 9 %	ELOT EN 61000-4-2 E2:2009 ΕΛΟΤ EN 61000-4-2 E3:2025
Burst generator at 50Ω and 1 kΩ - Peak voltage - Rise time - Impulse duration - Frequency	 20 V to 6000 V 1 ns to 100 ns 10 ns to 10 s 1 Hz to 1 MHz	 5 % 4 % 2 % 1 %	ELOT EN 61000-4-4 E3: 2012 ISO 7637-2 E3:2011 ISO 7637-3 E3:2016 §4.5, §4.6
Surge generator - Peak voltage (1,2/50 μs) - Front time - Time to half value - Impulse duration - Peak current (8/20 μs)	 100 V to 7000 V 100 ns to 10 μs 1 μs to 100 μs 1 μs to 10 s 1 A to 10000 A	 2 % 2 % 2 % 2 % 2 %	ELOT EN 61000-4-5 E3:2014 + A1:2017 ISO 7637-2 E3:2011 ISO 7637-3 E3:2016 §4.5, §4.6 ISO 16750-2:2012 §4.6.3
Voltage dips, short interruptions and voltage variations equipment - Voltage - Rise time - Angle	 10 V to 400 V 0,1 ns to 100 ns 0° to 360°	 2,5 % 10 % 3,5 %	ELOT EN 61000-4-11 E2: 2004 + A1:2017 ELOT EN 61000-4-11 E3: 2020

Calibration item / Parameters	Range of measurement	Expanded measurement uncertainty (k=2) *	Remarks
Power frequency magnetic field immunity test equipment - Current - Magnetic flux density	 0.1 A to 16 A 0,1 μT to 500 μT	 2 % 5 %	ELOT EN 61000-4-8: 2010
(Large Loop Antennas System – LLAS) - Current	-120 dBm to +20 dbm	2,2 dB	ELOT EN 55016-1-4 E4:2019 + A1:2020
Photometric measurements			
Photometers (Illuminance meters) - Illuminance	10 lx to 3000 lx	2,5 %	BS 667: 2005

* *Where the expanded uncertainty (with coverage probability 95 %) 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 measurand, the measurement range and the measurement uncertainty and expresses the smallest measurement uncertainty that can be achieved in a calibration.

Permanent laboratory premises address: **9, Iroon Politechniou str., 157 80 Zografou Campus, Zografou, Attiki, Greece**

Approved signatories: **Ioannis F. Gonos**

This Scope of Accreditation replaces the previous one dated 02.06.2025.
The Accreditation Certificate No. **490**-8, to ELOT EN ISO/IEC 17025: **2017**, is valid until 14.12.2029.

Athens, 12.12.2025

Konstantinou Evangelos Apostolos
CEO of ESYD