HELLENIC ACCREDITATION SYSTEM

# Annex F2/19 to the Certificate No. **39**-10

# SCOPE of ACCREDITATION

of the

## Calibration Laboratory

of

## INTRACOM DEFENSE S.A.

| Calibration item / Parameters | Range of measurement | Expanded measurement uncertainty (k=2)* | Remarks |
|---|---|---|---|
| Electrical measurements | | | |
| DC voltage standards, DC voltage calibrators & measuring equipment / DC Voltage (Generate – Measure) | [1 μV to 10 μV] | 0,05 μV | Internal method DCV-A2 |
| | (10 μV to 1mV] | 0,1 μV | |
| | (1 mV to 120 mV) | 1,0 μV | |
| | [120 mV to 1 V) | $3,5x10^{-6}$ | |
| | 1,018 V | $8,0x10^{-7}$ | |
| | 10 V | $5,0x10^{-7}$ | |
| | [1 V to 1000 V] | $2,0x10^{-6}$ | |
| DC current calibrators & measuring equipment / DC current (Generate – Measure) | [10 μA to 5 mA] | $1,2x10^{-5}$ | Internal method DCI-A1 |
| | (5 mA to 200 mA] | $3,0x10^{-5}$ | |
| | (200 mA to 3 A] | $3,5x10^{-5}$ | |
| | (3 A to 20 A] | $7,5x10^{-5}$ | |
| DC current calibrators / DC current (Measure) | 20 A to 100 A | $7,5x10^{-5}$ | |
| Resistors / DC resistance | [0,5 mΩ to 1 mΩ) | $9,5x10^{-5}$ | Internal method DCR-A1 |
| | [1 mΩ to 3 mΩ) | $5,5x10^{-5}$ | |
| | [3 mΩ to 10 mΩ) | $3,0x10^{-5}$ | |
| | [10 mΩ to 100 mΩ) | $2,0x10^{-5}$ | |
| | [100 mΩ to 10 Ω] | $9,0x10^{-6}$ | |
| | (10 Ω to 100 Ω) | $1,2x10^{-5}$ | |
| | [100 Ω to 1 kΩ) | $9,0x10^{-6}$ | |
| | [1 kΩ to 100 kΩ] | $7,0x10^{-6}$ | |
| | (100 kΩ to 1 MΩ] | $1,6x10^{-5}$ | |
| | (1 MΩ to 10 MΩ] | $6,0x10^{-5}$ | |
| | [0,5 mΩ to 1 mΩ) | $9,5x10^{-5}$ | |

| Calibration item / Parameters | Range of measurement | | Expanded measurement uncertainty (k=2)* | Remarks |
|---|---|---|---|---|
| Resistance meters / DC resistance | 10 mΩ | | $2,0x10^{-5}$ | |
| | 33 mΩ | | $2,2x10^{-5}$ | |
| | 100 mΩ | | $2,0x10^{-5}$ | |
| | 0,2 Ω | | $1,5x10^{-5}$ | |
| | 1 Ω | | $7,0x10^{-6}$ | |
| | 1,9 Ω | | $1,0x10^{-4}$ | |
| | 10 Ω | | $1,5x10^{-5}$ | |
| | 19 Ω | | $2,8x10^{-5}$ | |
| | 100 Ω, 1 kΩ | | $1,0x10^{-5}$ | |
| | 190 Ω | | $1,8x10^{-5}$ | |
| | 1,9 kΩ | | $1,3x10^{-5}$ | |
| | 10 kΩ | | $8,0x10^{-6}$ | |
| | 19 kΩ | | $1,2x10^{-5}$ | |
| | 100 kΩ | | $1,0x10^{-5}$ | |
| | 190 kΩ | | $1,4x10^{-5}$ | |
| | 1 MΩ | | $1,6x10^{-5}$ | |
| | 1,9 MΩ | | $2,1x10^{-5}$ | |
| | 10 MΩ | | $5,0x10^{-5}$ | |
| | 19 MΩ | | $5,0x10^{-5}$ | |
| | 100 MΩ | | $1,1x10^{-4}$ | |
| AC voltage calibrators & measuring equipment / AC voltage (Generate – Measure) | 100 mV | 10 Hz | $0,16x10^{-3}$ | Internal method ACV-A1 |
| | | 20 Hz, 40 Hz | $60x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $50x10^{-6}$ | |
| | | 10 kHz, 20 kHz | $5x10^{-6}$ | |
| | | 50 kHz, 70 kHz, 100 kHz | $70x10^{-6}$ | |
| | | 200 kHz, 500 kHz | $0,16x10^{-3}$ | |
| | | 700 kHz | $0,45x10^{-3}$ | |
| | | 1 MHz | $0,72x10^{-3}$ | |
| | 200 mV | 10 Hz | $0,16x10^{-3}$ | |
| | | 20 Hz, 40 Hz | $45x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $40x10^{-6}$ | |
| | | 10 kHz, 20 kHz | $40x10^{-6}$ | |
| | | 50 kHz, 70 kHz, 100 kHz | $50x10^{-6}$ | |
| | | 200 kHz | $75x10^{-6}$ | |
| | | 500 kHz | $95x10^{-6}$ | |
| | | 700 kHz | $0,39x10^{-3}$ | |
| | | 1 MHz | $0,66x10^{-3}$ | |
| | 600 mV | 10 Hz | $65x10^{-6}$ | |
| | | 20 Hz, 40 Hz | $45x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $35x10^{-6}$ | |
| | | 10 kHz, 20 kHz, 50 kHz | $35x10^{-6}$ | |
| | | 70 kHz, 100 kHz | $35x10^{-6}$ | |
| | | 200 kHz | $45x10^{-6}$ | |

| Calibration item / Parameters | Range of measurement | | Expanded measurement uncertainty (k=2)* | Remarks |
|---|---|---|---|---|
| AC voltage calibrators & measuring equipment / AC voltage (Generate – Measure) (cont.) | | 500 kHz | $75x10^{-6}$ | |
| | | 700 kHz | $95x10^{-6}$ | |
| | | 1 MHz | $0,25x10^{-3}$ | |
| | 1 V | 10 Hz | $65x10^{-6}$ | |
| | | 20 Hz | $35x10^{-6}$ | |
| | | 40 Hz, 500 Hz, 1 kHz | $25x10^{-6}$ | |
| | | 10 kHz, 20 kHz, 50 kHz | $25x10^{-6}$ | |
| | | 70 kHz | $30x10^{-6}$ | |
| | | 100 kHz | $35x10^{-6}$ | |
| | | 200 kHz | $45x10^{-6}$ | |
| | | 500 kHz | $75x10^{-6}$ | |
| | | 700 kHz | $95x10^{-6}$ | |
| | | 1 MHz | $0,25x10^{-3}$ | |
| | 2 V | 10 Hz | $65x10^{-6}$ | |
| | | 20 Hz | $35x10^{-6}$ | |
| | | 40 Hz | $25x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $20x10^{-6}$ | |
| | | 10 kHz, 20 kHz | $20x10^{-6}$ | |
| | | 50 kHz | $25x10^{-6}$ | |
| | | 70 kHz | $30x10^{-6}$ | |
| | | 100 kHz | $35x10^{-6}$ | |
| | | 200 kHz | $45x10^{-6}$ | |
| | | 500 kHz | $75x10^{-6}$ | |
| | | 700 kHz | $95x10^{-6}$ | |
| | | 1 MHz | $0,25x10^{-3}$ | |
| | 6 V | 10 Hz | $65x10^{-6}$ | |
| | | 20 Hz, | $35x10^{-6}$ | |
| | | 40 Hz, | $25x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $20x10^{-6}$ | |
| | | 10 kHz, 20 kHz, 50 kHz | $20x10^{-6}$ | |
| | | 70 kHz, 100 kHz | $25x10^{-6}$ | |
| | | 200 kHz | $35x10^{-6}$ | |
| | | 500 kHz | $45x10^{-6}$ | |
| | | 700 kHz | $75x10^{-6}$ | |
| | | 1 MHz | $0,25x10^{-3}$ | |
| | 10 V, 20 V | 10 Hz | $65x10^{-6}$ | |
| | | 20 Hz, | $35x10^{-6}$ | |
| | | 40 Hz, | $30x10^{-6}$ | |
| | | 500 Hz, 1 kHz | $25x10^{-6}$ | |
| | | 10 kHz, 20 kHz, 50 kHz | $25x10^{-6}$ | |
| | | 70 kHz, 100 kHz | $25x10^{-6}$ | |
| | | 200 kHz | $45x10^{-6}$ | |
| | | 500 kHz | $75x10^{-6}$ | |
| AC voltage calibrators & | | 700 kHz | $95x10^{-6}$ | |
| | | 1 MHz | $0,25x10^{-3}$ | |

| Calibration item / Parameters | Range of measurement | | Expanded measurement uncertainty (k=2)* | Remarks |
|---|---|---|---|---|
| measuring equipment / AC voltage (Generate – Measure) (cont.) | 60 | 10 Hz | $65 \times 10^{-6}$ | |
| | | 20 Hz, 40 Hz | $35 \times 10^{-6}$ | |
| | | 500 Hz, 1 kHz | $25 \times 10^{-6}$ | |
| | | 10 kHz, 20 kHz, 50 kHz | $25 \times 10^{-6}$ | |
| | | 70 kHz | $30 \times 10^{-6}$ | |
| | | 100 kHz | $35 \times 10^{-6}$ | |
| | 100 V, 200 V | 10 Hz | $65 \times 10^{-6}$ | |
| | | 20 Hz, 40 Hz | $35 \times 10^{-6}$ | |
| | | 500 Hz, 1 kHz, 10 kHz | $25 \times 10^{-6}$ | |
| | | 20 kHz, | $30 \times 10^{-6}$ | |
| | | 50 kHz 70 kHz | $35 \times 10^{-6}$ | |
| | | 100 kHz | $45 \times 10^{-6}$ | |
| | 1000 V | 10 Hz | $65 \times 10^{-6}$ | |
| | | 20 Hz, 40 Hz, 500 Hz | $55 \times 10^{-6}$ | |
| | | 1 kHz, 10 kHz, 20 kHz | $55 \times 10^{-6}$ | |
| | | 50 kHz | $55 \times 10^{-6}$ | |
| | | 70 kHz | $55 \times 10^{-6}$ | |
| | | 100 kHz | $0{,}12 \times 10^{-3}$ | |
| AC current calibrators & measuring equipment / AC current (Generate – Measure) | [100 mA to 200 mA] | 40 Hz, 1 kHz, 5 kHz, 10 kHz | $1{,}5 \times 10^{-4}$ | Internal method ACI-A1 |
| | (200 mA to 300 mA] | | $3{,}0 \times 10^{-4}$ | |
| | (300 mA to 500 mA] | | $1{,}9 \times 10^{-4}$ | |
| | (0,5 A to 1 A] | | $1{,}6 \times 10^{-4}$ | |
| | (1 A to 2 A] | | $1{,}9 \times 10^{-4}$ | |
| | (2 A to 10 A] | | $3{,}0 \times 10^{-4}$ | |
| | 10 A to 20 A | 40 Hz, 1 kHz, 5 kHz | $3{,}0 \times 10^{-4}$ | |
| Frequency measurements | | | | |
| Measuring instruments & sources of frequency / Frequency $f$ | [1 Hz to 6 GHz] | | $2 * \sqrt{(6{,}1 * 10^{-12} f)^2 + (1 * 10^{-7}\ Hz)^2}$ | Internal method FREQ-A1 |
| | (6 GHz to 26,5 GHz] | | 1 Hz | |
| Measuring instruments & sources of frequency / Measurement of phase time difference, 24 h average, range in 1 MHz steps | 1MHz to 10 MHz | | $8 \cdot 10^{-12} f$ | |
| Time interval measurements | | | | |
| Measuring instruments & sources of time interval / Time interval $t$ | 5 ns to 10000 s | | $2 * \sqrt{(6 * 10^{-12} t)^2 + (6 * 10^{-11}\ s)^2}$ | Internal method FREQ-A1 |
| Temperature measurements | | | | |

| Calibration item / Parameters | Range of measurement | Expanded measurement uncertainty (k=2)* | Remarks |
|---|---|---|---|
| Thermometers (direct reading) | -40 ˚C to 120 ˚C | 45 mK | Internal method Therm_Meas_A1 using temperature calibrator and platinum resistor thermometer |
| Torque measurements | | | |
| Torque wrenches, torque drivers | [0,2 Nm to 1 Nm] | 1,2 % | According to standards: ISO 6789-1:2017 ISO 6789-2:2017 |
| | (1 Nm to 20 Nm] | 0,60 % | |
| | (20 Nm to 100 Nm] | 0,65 % | |
| | (100 Nm to 1000 Nm] | 0,70 % | |

** Where expanded uncertainty (with a probability of 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, measurement range and measurement uncertainty and expresses the smallest measurement uncertainty that can be achieved during a calibration.*

Permanent laboratory premises address: **Building C1, 21 km Markopoulou Ave, 19441 Koropi, Attiki, Greece.**

Approved Signatories: **E. Vlachakis, G. Lagonikos.**

This Scope of Accreditation replaces the previous one dated 05.05.2026.
The Accreditation Certificate No. **39**-10, to ELOT EN ISO/IEC 17025:2017, is valid until 11.11.2030.

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