Hellenic Accreditation System

Annex F2/17 to the Certificate No. **559**-6

SCOPE of ACCREDITATION

of the

Calibration Laboratory

of

DEKA S.A.

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
Mass Measurements			
Non-automatic weighing instruments	1 mg	5,3 µg	According to guideline: EURAMET cg-18/v.04 (11/2015) Using standard weights according to OIML κατά OIML P-111-1 (2004): E2: 1 mg to200 g Max grouped load 611,11 g F1: 500 g to 5 kg Max grouped load 11,0 kg F2: 10 k to 20 kg Max grouped load 30,0 kg M1: 20 kg Max grouped load 600 kg Calibration is performed on-site.
	2 mg	5,3 µg	
	5 mg	5,3 µg	
	10 mg	6,9 µg	
	20 mg	8,1 µg	
	50 mg	11 µg	
	100 mg	13 µg	
	200 mg	16 µg	
	500 mg	21 µg	
	1 g	27 µg	
	2 g	35 µg	
	5 g	43 µg	
	10 g	53 µg	
	20 g	70 µg	
	50 g	81 µg	
	100 g	0,13 mg	
	200 g	0,27 mg	
	500 g	1,1 mg	
	1 kg	4,4 mg	
	2 kg	11 mg	
	5 kg	23 mg	
	10 kg	43 mg	

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
	20 kg	0,28 g	
	50 kg	1.3 g	
	100 kg	3.8 g	
	200 kg	8.2 g	
	300 kg	13 g	
	600 kg	29 g	
Temperature measurements			
Analog and digital direct reading thermometers			Internal calibration method P.2-03T-2 using Pt100 sensor
	-78,5 °C	0,13 °C	Using propanone / ice dry mixture. Calibration can also be performed on-site.
	[-70 to -50) °C	0,50 °C	Using climatic chamber.
	[-50 to 150) °C	0,10 °C	Using dry block calibrator. Calibration can also be performed on-site.
	[-40 to 250) °C	0,047 °C	Using liquid baths.
	[250 to 420) °C	0,17 °C	Using dry block calibrator. Calibration can also be performed on-site.
	[420 to 600) °C	1,3 °C	Internal calibration method P.2-03T-2 using type-S thermocouple and dry block calibrator.
	[600 to 1000] °C	1,8 °C	
Liquid-in-glass thermometers of total and partial immersion	[-40 to 250] °C	0,047 °C	Internal method P.2-03T-1 using Pt100 sensor and liquid baths.
Analog and digital direct reading thermometers for measurements of air temperature, temperature data loggers	[-70 to -40) °C	0,50 °C	Internal method P.2-03T-4 using Pt100 sensor in climatic chamber. Calibration can also be performed on site.
	[-40 to 5) °C	0,40 °C	
	[5 to 15) °C	0,31 °C	
	[15 to 35) °C	0,16 °C	
	[35 to 50] °C	0,27 °C	
	(50 to 70] °C	0,40 °C	
Temperature transmitters with analog signal output in mA or V connected with	[-50 to -40) °C	0,10 °C	Internal method P.2-03T-2 using Pt100 sensor, multifunction calibrator and dry block calibrator.

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
temperature sensor	[-40 to 250] ºC	0,050 ºC	Internal method P.2-03T-2 using Pt100 sensor, multifunction calibrator and liquid baths.
Temperature transmitters with analog signal output in mA or V connected with temperature sensor for measurements of air temperature	[-70 to -40) ºC	0,50 ºC	Internal method P.2-03T-6 using Pt100 sensor, multifunction calibrator and climatic chamber.
	[-40 to 5) ºC	0,40 ºC	
	[5 to 15) ºC	0,31 ºC	
	[15 to 35) ºC	0,16 ºC	
	[35 to 50] ºC	0,27 ºC	
	(50 to 70] ºC	0,40 ºC	
Climatic and isothermal chambers, ovens incubators and sterilization furnaces refrigerators, freezers, with internal volume up to 2000 l, with or without air circulation	[-40 to 20] ºC	0,20 ºC	According to DKD-R 5-7: 2018 Calibration can also be performed on site.
	[20 to 140] ºC	0,10 ºC	
	[140 to 250] ºC	0,20 ºC	
Relative humidity measurements			
Analog and digital hygrometers, humidity data loggers Humidity transmitters with analog signal output in mA or V, connected with humidity sensor	[15 to 30) % RH	1,0 % RH	Internal calibration method P.2-03T-3 using reference hygrometer in a climatic chamber. Calibration is performed at 25 ºC. Calibration can also be performed on site.
	[30 to 75) % RH	1,3 % RH	
	[75 to 95] % RH	1,6 % RH	
Analog and digital hygrometers, humidity data loggers humidity transmitters with analog signal output in mA or V, connected with humidity sensor	[15 to 30) % RH	1,0 % RH	Internal calibration method P.2-03T-3 using reference hygrometer in a climatic chamber. Calibration is performed at 40 ºC. Calibration can also be performed on site.
	[30 to 75) % RH	1,5 % RH	
	[75 to 95] % RH	1,8 % RH	
Environmental chambers with internal volume up to 2000 l	[15 to 95] % RH	1.9 % rH	According to guide DKD-R 5-7:2018 Calibration is performed at 25 ºC or/and 40 ºC. Calibration can also be performed on site.
Pressure measurements			
Analog and digital positive or negative relative pressure	[-95 to -12,5] kPa	50 Pa	Calibration according to DKD-R 6-1:2014.
	[-1000 to -125] Pa	1,2 Pa	

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
gauges of direct reading	[-100 to -12,5] Pa	0,35 Pa	Calibration can also be performed on site. (pressure medium: gas)
	(12,5 to 100] Pa	0,35 Pa	
	[125 to 1000] Pa	1,2 Pa	
	[3 to 25) kPa	1,3 Pa	
	[25 to 40) kPa	20 Pa	
	[40 to 130) kPa	11 Pa	
	(130 to 400) kPa	$(8{,}0\cdot10\text{-}5\cdot p)$ kPa where p: press. at kPa	
	[400 to 1250) kPa	0,10 kPa	
	(1,25 to 4,0] MPa	$(8{,}0\cdot10\text{-}2\cdot p)$ kPa where p: press. at MPa	
Analog and digital relative pressure gauges of direct reading	[1,25 to 4) MPa	$(8\cdot10\text{-}2\cdot p)$ kPa where p: press. at MPa	Calibration according to DKD-R 6-1:2014. Calibration can also be performed on site. (pressure medium: deionized water or oil)
	[4 to 6) MPa	3,0 kPa	
	[6 to 10) MPa	5,0 kPa	
	[10 to 16) MPa	8,0 kPa	
	[16 to 20) MPa	10 kPa	
	[20 to 40) MPa	20 kPa	
	[40 to 100] MPa	50 kPa	
Analog and digital relative pressure gauges of direct reading	[100 έως 200] MPa	500 kPa	Calibration according to DKD-R 6-1:2014. Calibration can also be performed on site. (pressure medium: oil)
Analog and digital positive or negative relative pressure gauges of direct reading	[-100 to -3.5] kPa	$(1{,}4\cdot10^{-4}\cdot\lvert p\rvert)$ kPa where p: press. at kPa	Calibration according to DKD-R 6-1:2014, using pressure balance (DWT). (pressure medium: gas)
	[3.5 to 100) kPa	$(6{,}2\cdot10^{-5}\cdot p + 1{,}9\cdot10^{-4})$ kPa where p: press. at kPa	
	[100 to 700] kPa	$(6{,}41\cdot10^{-5}\cdot p)$ kPa where p: press. at kPa	
Analog and digital relative pressure gauges of direct reading	[1 to 10) MPa	$(6{,}9\cdot10^{-5}\cdot p + 1{,}4\cdot10^{-4})$ MPa where p: press. at MPa	Calibration according to DKD-R 6-1:2014, using pressure balance (DWT). (pressure medium: oil)
	[10 to 100] MPa	$(1{,}3\cdot10^{-4}\cdot p - 1{,}0\cdot10^{-3})$ MPa where p: press. at MPa	
Analog and digital absolute pressure gauges, including barometers, of direct reading	[5 to 80) kPa abs	80 Pa	Calibration according to DKD-R 6-1:2014. (pressure medium: gas)
	[80 to 120) kPa abs	20 Pa	
	[120 to 160) kPa abs	80 Pa	

Calibration item / Parameters	Range of measurement	Expanded Measurement Uncertainty (k=2)*	Remarks
	[0,16 to 1,6] MPa abs	0,80 kPa	
	[1,6 to 6] MPa abs	3 kPa	
Volume measurements			
Piston pipettes – Automatic pipettes	[10 to 100) μL	5,0 to 0,5%	Calibration according to EURAMET cg 19/v.3.0 (2018)
	[10 to 100) μL	5,0 to 0,5%	

** 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: **40 Polydefkous str., 18545 Piraeus, Greece.**
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This Scope of Accreditation replaces the previous one dated 27.11.2025.
The Accreditation Certificate No. **559**-6, to ELOT EN ISO/IEC 17025:2017, is valid until 31.05.2030.

Athens, 28.11.2025

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