



Organisme belge d'Accréditation  
Belgische Accreditatieinstelling  
Belgische Akkreditierungsstelle  
Belgian Accreditation Body

EA MLA Signatory

Bijlage bij accreditatie-certificaat  
Annexe au certificat d'accréditation  
Annex to the accreditation certificate  
Beilage zur Akkreditierungszertifikat

# 327-CAL

EN ISO/IEC 17025:2017

Versie / Version / Version / Fassung	13
Geldigheidsperiode / Validité / Validity / Gültigkeitsdauer	2020-10-22 - 2025-09-03

**Maureen Logghe**

Voorzitster van het Accreditatiebureau

La Présidente du Bureau d'Accréditation

Chair of the Accreditation Board

Vorsitzende des Akkreditierungsbüro

De accreditatie werd uitgereikt aan / L'accréditation est délivrée à /  
The accreditation is granted to / Die akkreditierung wurde erteilt für:

**EUROPEAN LAB SERVICES bv**  
**Hospitaalstraat, 35**  
**9140 TEMSE**

Calibration and Measurement Capabilities				
Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	calibration procedure/method
<b>DC/LF ELECTRICITY</b>				
Resistance (DC/LF)	0,1 $\Omega$ to < 11 $\Omega$	0,006 $\Omega$	By comparison with reference Resistor decade bench.	CP-ELS-009 Procedure for calibration of resistance indicators
	11 $\Omega$ to < 111 $\Omega$	0,010 $\Omega$		
	111 $\Omega$ to < 600 $\Omega$	0,044 $\Omega$		
	25 $\Omega$	0,00038 $\Omega$	By comparison with reference resistors	CP-ELS-011 Procedure for calibration of R25 & R100
	100 $\Omega$	0,00081 $\Omega$		

(\*) the smallest uncertainty of measurement the laboratory can provide to its customers, expressed as the expanded uncertainty having a coverage probability of approximately 95%.

Calibration and Measurement Capabilities				
Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	calibration procedure/method
<b>MASS</b>				
Balances with digital display, excluding analog balances	10 g to 8 kg	0,000006 g to 0,00085 g	By comparison with standard weight class E1	CP-ELS-014 Procedure for calibration of non automatic weighing instrument according to EURAMET guideline cg-18
	1 mg to 17 kg	0,000006 g to 0,0181 g	By comparison with standard weight class F1	
	1mg to 20kg	0,000006 g to 0,0185	By comparison with standard weight class F1	
Onsite calibration - Balances with digital display, excluding analog balances	10 g to 8 kg	0,000006 g to 0,00085 g	By comparison with standard weight class E1	CP-ELS-014 Procedure for calibration of non automatic weighing instrument according to EURAMET guideline cg-18
	1 mg to 17 kg	0,000006 g to 0,0181 g	By comparison with standard weight class F1	
	1mg to 20kg	0,000006 g to 0,0185	By comparison with standard weight class F1	

(\*) the smallest uncertainty of measurement the laboratory can provide to its customers, expressed as the expanded uncertainty having a coverage probability of approximately 95%.

Calibration and Measurement Capabilities				
Measured quantity, instrument or gauge	Range	expanded uncertainty (*)	Remarks	calibration procedure/method
<b>TEMPERATURE</b>				
<b>IN HOUSE CALIBRATION</b>				
Resistance thermometers	0,01 °C	0,0054 °C	Measurement in Triple point of water	CP-ELS-013 Guide for the qualification & use of water triple point
	-80 °C to < -60 °C	0,024 °C	By comparison with reference thermometers in liquid baths.	CP-ELS-004 Procedure for calibration of PT100 sensors
	-60 °C to < -40 °C	0,024 °C		
	-40 °C to < 0 °C	0,020 °C		
	0 °C to < 100 °C	0,022 °C		
	100 °C to < 150 °C	0,023 °C		
	150 °C to < 200 °C	0,028 °C		
	200 °C to < 300 °C	0,035 °C		
	300 °C to < 450 °C	0,18 °C	By comparison with reference thermometers in dry block calibrator.	CP-ELS-004 Procedure for calibration of PT100 sensors
	450 °C to < 660 °C	0,50 °C		
Temperature measuring chain with the exclusion of optical system	0,01 °C	0,0042 °C	Measurement in Triple point of water	CP-ELS-013 Guide for the qualification & use of water triple point
	-80 °C to < -60 °C	0,020 °C	By comparison with reference thermometers in liquid baths.	CP-ELS-007 Procedure for calibration of measurement chain
	-60 °C to < -40 °C	0,020 °C		
	-40 °C to < 0 °C	0,014 °C		
	0 to < 25 °C	0,013 °C		
	25 to 40°C	0,024°C		
	40°C to 100 °C	0,0098°C		
	100 °C to < 150 °C	0,0075°C		
	150 °C to < 200 °C	0,012 °C	By comparison with reference thermometers in dry block calibrator.	CP-ELS-007 Procedure for calibration of measurement chain
	200 °C to < 300 °C	0,013 °C		
	300 °C to < 450 °C	0,17 °C		
	450 °C to < 660 °C	0,53 °C		

Liquid in glass thermometers				
1 scale interval = 5 °C	-80 °C to < -40 °C	2,9 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	CP-ELS-006 Procedure for calibration of glass thermometers
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,12 °C		
1 scale interval = 0,1 °C		0,06 °C		
1 scale interval = 0,05 °C		0,03 °C		
1 scale interval = 0,01 °C		0,02 °C		
1 scale interval = 5 °C	-40 °C to < 0 °C	2,9 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,12 °C		
1 scale interval = 0,1 °C		0,06 °C		
1 scale interval = 0,05 °C		0,03 °C		
1 scale interval = 0,01 °C		0,02 °C		
1 scale interval = 5 °C	0 °C to < 150 °C	2,9 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,12 °C		
1 scale interval = 0,1 °C		0,06 °C		
1 scale interval = 0,05 °C		0,03 °C		
1 scale interval = 0,01 °C		0,02 °C		
1 scale interval = 5 °C	150 °C to < 200 °C	2,9 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,12 °C		
1 scale interval = 0,1 °C		0,06 °C		
1 scale interval = 0,05 °C		0,03 °C		
1 scale interval = 0,01 °C		0,02 °C		
1 scale interval = 5 °C	200 °C to < 300 °C	2,9 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,12 °C		
1 scale interval = 0,1 °C		0,06 °C		
1 scale interval = 0,05 °C		0,03 °C		
1 scale interval = 0,01 °C		0,02 °C		

ON SITE CALIBRATION				
Resistance thermometers	-25 °C to < 0 °C	0,04 °C	By comparison with reference thermometers in liquid baths.	CP-ELS-004 Procedure for calibration of PT100 sensors
	0 to < 40 °C	0,06 °C		
	40 to < 165 °C	0,11 °C		
	165 to < 450 °C	0,25 °C	By comparison with reference thermometers in dry block calibrator.	
	450 °C to < 660 °C	0,59 °C		
Temperature measurement chains with exclusion of optical thermometers.	-25 °C to < 0 °C	0,03 °C	By comparison with reference thermometers in liquid baths.	CP-ELS-007 Procedure for calibration of measurement chain
	0 to < 40 °C	0,06 °C		
	40 to < 165 °C	0,11 °C		
	165 to < 450 °C	0,24 °C	By comparison with reference thermometers in dry block calibrator.	
	450 °C to < 660 °C	0,59 °C		
Liquid in glass thermometers				
1 scale interval = 5 °C	-25 °C to < 0 °C	3 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	CP-ELS-006 Procedure for calibration of glass thermometers
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,13 °C		
1 scale interval = 0,1 °C		0,08 °C		
1 scale interval = 0,05 °C		0,06 °C		
1 scale interval = 0,01 °C		0,04 °C		
1 scale interval = 5 °C	0 °C to < 165 °C	3 °C	Total or partial immersion.  By comparison with reference thermometers in liquid baths.	CP-ELS-006 Procedure for calibration of glass thermometers
1 scale interval = 2 °C		1,2 °C		
1 scale interval = 1 °C		0,6 °C		
1 scale interval = 0,5 °C		0,3 °C		
1 scale interval = 0,2 °C		0,13 °C		
1 scale interval = 0,1 °C		0,07 °C		
1 scale interval = 0,05 °C		0,06 °C		
1 scale interval = 0,01 °C		0,05 °C		

(\*) the smallest uncertainty of measurement the laboratory can provide to its customers, expressed as the expanded uncertainty having a coverage probability of approximately 95%.