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Organisme belge d'Accréditation  
Belgische Accreditatie-instelling  
Belgian Accreditation Body

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

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

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Measuring Equipment	Measuring Range	CMC (Calibration and measurement capability) Expressed as expanded measurement uncertainty (95%)	Remarks
<b>DC/LF ELECTRICITY</b>			
Resistance (DC/LF)	0,1 $\Omega$ to < 11 $\Omega$	0,0018 $\Omega$	By comparison with reference Resistor decade bench.
	11 $\Omega$ to < 111 $\Omega$	0,0050 $\Omega$	
	111 $\Omega$ to < 600 $\Omega$	0,021 $\Omega$	
	25 $\Omega$	0,00038 $\Omega$	By comparison with reference resistors
	100 $\Omega$	0,00081 $\Omega$	
<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
	1 mg to 17 kg	0,000006 g to 0,0181 g	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
	1 mg to 17 kg	0,000006 g to 0,0181 g	By comparison with standard weight class F1

Measuring Equipment	Measuring Range	CMC (Calibration and measurement capability) Expressed as expanded measurement uncertainty (95%)	Remarks
<b>TEMPERATURE</b>			
<b>IN HOUSE CALIBRATION</b>			
Resistance thermometers	0,01 °C	0,0054 °C	Measurement in Triple point of water
	-80 °C to < -40 °C	0,065 °C	By comparison with reference thermometers in liquid baths.
	-40 °C to < 0 °C	0,016 °C	
	0 °C to < 100 °C	0,020 °C	
	100 °C to < 150 °C	0,020 °C	
	150 °C to < 200 °C	0,065 °C	
	200 °C to < 275 °C	0,10 °C	By comparison with reference thermometers in dry block calibrator.
	275 °C to < 450 °C	0,50 °C	
	450 °C to < 660 °C	0,60 °C	
Temperature measuring chain with the exclusion of optical system	0,01 °C	0,0042 °C	Measurement in Triple point of water
	-80 °C to < -40 °C	0,060 °C	By comparison with reference thermometers in liquid baths.
	-40 °C to < 0 °C	0,015 °C	
	0 °C to < 100 °C	0,009 °C	
	100 °C to < 150 °C	0,010 °C	
	150 °C to < 200 °C	0,040 °C	
	200 °C to < 275 °C	0,10 °C	By comparison with reference thermometers in dry block calibrator.
	275 °C to < 450 °C	0,50 °C	
	450 °C to < 660 °C	0,55 °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.
1 scale interval = 2 °C		1,2 °C	
1 scale interval = 1 °C		0,6 °C	
1 scale interval = 0,5 °C		0,30 °C	
1 scale interval = 0,2 °C		0,13 °C	
1 scale interval = 0,1 °C		0,10 °C	
1 scale interval = 0,05 °C		0,07 °C	
1 scale interval = 0,01 °C		0,06 °C	

Measuring Equipment	Measuring Range	CMC (Calibration and measurement capability) Expressed as expanded measurement uncertainty (95%)	Remarks
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		0,15 °C	
1 scale interval = 0,1 °C		0,06 °C	
1 scale interval = 0,05 °C		0,04 °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		0,01 °C	
1 scale interval = 5 °C	150 °C to < 200 °C	3 °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		0,14 °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	200 °C to < 275 °C	3 °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		0,7 °C	
1 scale interval = 0,5 °C		0,4 °C	
1 scale interval = 0,2 °C		0,15 °C	
1 scale interval = 0,1 °C		0,15 °C	
1 scale interval = 0,05 °C		0,12 °C	
1 scale interval = 0,01 °C		0,10 °C	

Measuring Equipment	Measuring Range	CMC (Calibration and measurement capability) Expressed as expanded measurement uncertainty (95%)	Remarks
<b>IN SITU CALIBRATION</b>			
Resistance thermometers	-25 °C to < 165 °C	0,1 °C	By comparison with reference thermometers in liquid baths.
	165 °C to < 450 °C	0,5 °C	By comparison with reference thermometers in dry block calibrator.
	450 °C to < 660 °C	0,5 °C	
Temperature measurement chains with exclusion of optical thermometers.	-25 °C to < 165 °C	0,1 °C	By comparison with reference thermometers in liquid baths.
	165 °C to < 450 °C	0,5 °C	By comparison with reference thermometers in dry block calibrator.
	450 °C to < 660 °C	0,5 °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.
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		0,2 °C	
1 scale interval = 0,1 °C		0,2 °C	
1 scale interval = 0,05 °C		0,2 °C	
1 scale interval = 0,01 °C		0,2 °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.
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		0,2 °C	
1 scale interval = 0,1 °C		0,2 °C	
1 scale interval = 0,05 °C		0,2 °C	
1 scale interval = 0,01 °C		0,2 °C	

-According to International Temperature Scale 1990 (ITS-90).

-The overall measurement uncertainty of a calibrating measuring device cannot be smaller than the above mentioned measurement uncertainty.

-The reported uncertainty applies for a confidence level of 95% corresponding to an uncertainty coverage factor k=2.