

CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

TESTO SOUTH AFRICA (PTY) LTD
Co. Reg. No.: 2015/403399/07
TEMPERATURE CALIBRATION LABORATORY
CAPE TOWN

Accreditation Number: **CAL 077-03-00**

is a South African National Accreditation System accredited Calibration Laboratory
provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation
Annexure "A", bearing the above accreditation number for

TEMPERATURE METROLOGY

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2017

The accreditation demonstrates technical competency for a defined scope and the operation of a
laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the
relevant SANAS accreditation symbol to issue facility reports and/or certificates

Mr F Osman
Acting Chief Executive Officer

Effective Date: 17 September 2025
Certificate Expires: 16 September 2030

ANNEXURE A

SCOPE OF ACCREDITATION

TEMPERATURE METROLOGY

Accreditation Number: CAL 077-03-00

Permanent Address of Laboratory: Testo South Africa (Pty) Ltd Temperature Calibration Laboratory G1 Pinelands Business Park 4 New Mill Road Pinelands, Cape Town		Technical Signatories: Ms C Korasie (All Items) Postal Address: G1 Pinelands Business Park 4 New Mill Road Pinelands, Cape Town 7405		
Tel: (021) 300-3260 Fax: (086) 621-6380 E-mail: ckorasie@testo.co.za		Issue No.: 09 Date of Issue: 17 September 2025 Expiry Date: 16 September 2030		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	METHOD / PROCEDURE
1	THERMOMETRY			
1.1	Thermocouples			
1.1.1	Noble Metal	- 35 °C to 200 °C	0,3 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace
1.1.2	Base Metal	- 79 °C - 35 °C to 200 °C	0,5 K 0,3 K	
1.2	Resistance Thermometers			
1.2.1	Platinum Thermometers (PT 100)	- 79 °C - 35 °C to 200 °C	0,5 K 0,15 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace
1.3	Thermometers			
1.3.2	Digital Thermometers Incorporating Surface Probes	- 79 °C - 35 °C to 200 °C	0,5 K 0,05 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace
		0 °C to 150 °C	3,5 K + 0,01x ΔT K	Calibration by comparison with a reference thermometer on a hot plate or similar heat source
1.3.3	Mechanical (dial) thermometers	- 25 °C to 50 °C 50 °C to 200 °C	1,5 K 2,5 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace
1.3.5	Radiation Thermometers	- 20 °C to 150 °C	2,0 K	Calibration using a radiation source and reference thermometer

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ΔT - The difference between the measured and ambient temperatures

The CMC, expressed as an expanded uncertainty of measurement, is stated as the standard uncertainty of measurement multiplied by a coverage factor $k = 2$, corresponding to a confidence level of approximately 95%

Accreditation Manager

ANNEXURE A

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1.4	Reference Temperature Sources						
1.4.1	Ice point reference	0 °C	0,05 K	Prepared in a thermally insulated flask using distilled water and ice			
1.5	Temperature Measuring and Recording						
1.5.2	Data Loggers: Internal Probe Data Loggers: External Probe	- 40 °C to 140 °C - 79 °C - 35 °C to 200 °C	0,3 K 0,5 K 0,3 K	Calibration in a chamber, liquid bath or dry ice against a reference thermometer.			
2	ELECTRICAL SIMULATION OF TEMPERATURE						
2.1	Thermocouple Simulation						
2.1.1 2.1.2 2.1.3	Indicators Transmitters Calibrators	- 200 °C to 1 370 °C	0,3 K	Calibration by the sourcing or measurement of voltages equivalent to the thermocouple type.			
2.1.4	Cold Junction Compensation	0 °C to 30 °C	0,3 K	Comparison with a reference thermometer.			
2.2	Resistance Simulation						
2.2.1	Digital Thermometers / Indicators	- 200 °C to 850 °C	0,3 K	Calibration by the application or measurement of electrical resistance equivalent to the resistance thermometer type.			
2.2.2	Temperature Transmitters						
2.2.3	Temperature calibrators						
4	TEMPERATURE INSTALLATIONS AND DEVICES						
4.1	Iso-thermal Media evaluation (multi point over time monitoring)						
4.1.1	Steam Sterilizers: Temperature Pressure Time	80 °C to 125 °C 0 kPa to 200 kPa 0 min to 120 minutes	1,0 K 20 kPa 5 seconds	Calibration by temperature mapping over time using reference thermometers and/or loggers including calibration of the timing and pressure indicating device.			
4.1.2 4.1.3	Environmental chambers Furnaces / Drying ovens	- 35 °C to 200 °C	0,3 K	Calibration by temperature mapping over time using reference thermometers and/or loggers			
4.2	Temperature Installations (Single Point)						
4.2.1 4.2.2 4.2.4 4.2.5	Furnaces and Ovens Fridges and Freezers Stirred Water baths Other Industrial installations	- 35 °C to 200 °C	0,3 K	By comparison to a reference thermometer located at an appropriate location within the device or installation.			
5	On-site Calibration for items 1, 2, and 4 above						

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager