



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:-

DM LABORATORY SUPPLIES CC

Co. Reg. No.: 1996/023347/23

**TRADING AS LABTRONIC
TEMPERATURE CALIBRATION LABORATORY**

Accreditation Number: 324

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 T Baleni
Acting Chief Executive Officer

Effective Date: 15 November 2022

Certificate Expires: 18 June 2027

ANNEXURE A

SCOPE OF ACCREDITATION
TEMPERATURE METROLOGY

Accreditation Number: 324

Permanent Address of Laboratory: DM Laboratory Supplies CC; t/a Labtronic Temperature Calibration Laboratory 9 Paulus Street Kamma Park Port Elizabeth 6070 Postal Address: Postnet Suite 111 Private Bag X0002 Sunridge Park 6008 Tel: (041) 379-4620 Fax: 086 556 4027 E-mail: labtronic@mweb.co.za	Technical Signatory: Mr D van Tonder Nominated Representative: Mrs M van Tonder Issue No.: 14 Date of Issue: 15 November 2022 Expiry Date: 18 June 2027
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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			
1.1.2	Base Metal	- 40 °C to 200 °C 200 °C to 350 °C	1,0 K 1,5 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace.
1.3	Thermometers			
1.3.1	Liquid-in-glass	- 40 °C to 180 °C 180 °C to 350 °C	0,4 K 1,5 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace.
1.3.2	Digital Thermometers	- 40 °C to 200 °C 200 °C to 350 °C	0,4 K 1,5 K	
1.3.5	Radiation Thermometers	- 40 °C to 250 °C	5,0 K	Calibration using a radiation source and reference thermometer.
1.4	Reference Temperature Sources			
1.4.1	Ice Point Reference	0,0 °C	0,1 K	Prepared in a thermally insulated flask using distilled water and ice.
1.5	Temperature Measuring and Recording			
1.5.2	Data Loggers	- 40 °C to 200 °C 200 °C to 350 °C	0,4 K 1,5 K	Calibration in a chamber or liquid bath against a reference thermometer.

Original Date of Accreditation: 01 October 2002

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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

Accreditation No.: 324
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2	ELECTRICAL SIMULATION OF TEMPERATURE			
2.1	Thermocouple Simulation			
2.1.1	Indicators	- 50 °C to 1600 °C	0,3 K	Calibration by the sourcing or measurement of voltages equivalent to the thermocouple type.
2.1.2	Transmitters	- 50 °C to 1600 °C	0,3 K	
2.1.4	Cold Junction Compensation	0 °C to 30 °C	0,1 K	Comparison with a reference thermometer
3	TEMPERATURE SOURCES			
3.1	Calibration Sources			
3.1.1	Dry Block Temperature Calibrator	0 °C to 200 °C 200 °C to 350 °C	0,5 K 1,5 K	By comparison to a reference thermometer placed into the boring of the calibrator.
4	TEMPERATURE INSTALLATIONS AND DEVICES			
4.2	Temperature Installations (Single Point)			
4.2.1	Furnaces, Ovens,	- 40 °C to 200 °C 200 °C to 350 °C	0,5 K 1,5 K	By comparison to a reference thermometer located at an appropriate location within the device or installation
4.2.2	Fridges and Freezers			
4.2.3	Incubators			
4.2.4	Stirred Water Baths			
4.2.5	Other Industrial Installations			
5	On-Site calibration for items 1.3, 1.5, 2, 3 and 4 above			

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager

