



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:-

MONITORING & CONTROL LABORATORIES (PTY) LTD
Co. Reg. No.: 1991/001982/07
TEMPERATURE CALIBRATION LABORATORY

Accreditation Number: **356**

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 M Phaloane
Acting Chief Executive Officer

Effective Date: 18 December 2020
Certificate Expires: 25 May 2022



ANNEXURE A

SCOPE OF ACCREDITATION TEMPERATURE METROLOGY

Accreditation Number: 356

Permanent Address of Laboratory: Monitoring & Control Laboratories (Pty) Ltd Temperature Calibration Laboratory 10 Village Crescent Linbro Business Park Linbro 2065 Postal Address: P O Box 890226 Lyndhurst 2106 Tel: (011) 608-4664 Fax: (011) 608-4741 E-mail: kgovender@moncon.co.za		Technical Signatory: Ms K Govender Nominated Representative: Ms K Govender Issue No.: 09 Date of Issue: 18 December 2020 Expiry Date: 25 May 2022		
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			
1.3	Thermometers			
1.3.1	Liquid-in-glass	- 30 °C to 50 °C	0,4 K	Calibration by comparison with a reference thermometer in a bath, drywell or furnace
1.3.2	Digital Thermometers	50 °C to 190 °C	0,5 K	
1.4	Reference Temperature Sources			
1.4.1	Ice Point Reference	0,0 °C	0,2 K	Prepared in a thermally insulated flask using distilled water and Ice
1.5	Temperature Measuring and Recording			
1.5.2	Data Loggers	- 80 °C to - 30 °C - 30 °C to 50 °C 50 °C to 200 °C	0,7 K 0,4 K 0,5 K	Calibration in a chamber, liquid bath against a reference thermometer, or by comparison on-site

Original Date of Accreditation: May 2007

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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

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4	TEMPERATURE INSTALLATIONS AND DEVICES			
4.1	Iso-thermal Media evaluation (multi point over time monitoring)			
4.1.2	Environmental chambers	- 80 °C to 200 °C	0,8 K	Calibration by temperature mapping over time using reference thermometers and/or loggers
4.1.3	Drying ovens	30 °C to 200 °C	0,8 K	
4.1.4	Fridges and Freezers	- 80 °C to 23 °C	0,8 K	
4.1.5	Incubators	20 °C to 50 °C	0,8 K	
4.1.6	Liquid Baths	- 80 °C to 200 °C	0,8 K	
4.2	Temperature installations (Single Point)			
4.2.1	Furnaces , Ovens	30 °C to 200 °C	0,8 K	By comparison to a reference thermometer located at an appropriate location within the device or installation
4.2.2	Fridges and Freezers	- 80 °C to 23 °C	0,8 K	
4.2.3	Incubators	20 °C to 50 °C	0,8 K	
4.2.4	Liquid Baths	- 30°C to 200°C	0,8 K	
4.2.5	Other Industrial Installations	- 30 °C to 200 °C 200 °C to 1 000 °C	0,8 K 4,0 K	
5	On-site calibration for items 1.5.2 & 4 above			

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Accreditation Manager

