

CERTIFICATE OF ACCREDITATION

SCIENTIFIC AND INDUSTRIAL RESEARCH AND DEVELOPMENT CENTRE NATIONAL METROLOGY INSTITUTE

Company VAT. No. 220088617

Facility Accreditation Number: CAL-14 002

is a SADCAS accredited Calibration Laboratory
provided that all SADCAS conditions are complied with

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

TEMPERATURE METROLOGY

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

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

*SADCAS is a subsidiary organization of SADC. A memorandum of understanding between SADC and
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States
as a multi-economy accreditation body*

Pinkie J Malebe
For SADCAS Chief Executive Officer

Date of Renewal of Accreditation: 13 June 2022
Effective Date (Issue No: 1): 13 June 2022
Certificate Expires: 12 June 2027

ANNEXURE A

SCHEDULE OF ACCREDITATION

TEMPERATURE METROLOGY

Laboratory Accreditation Number: **CAL-14 002 (ISO/IEC 17025:2017)**

Permanent Address of Laboratory Scientific & Industrial Research and Development Centre - National Metrology Institute 1574 Alpes Road, Hatcliffe Harare Zimbabwe		Technical Signatories : Mr J C Madziwa (All items)		
Postal Address P O Box 6640 Harare Zimbabwe		Nominated Representative : Mr E Chaazi		
Tel : +263 86 7700 9674 Cell : +263 71 286 4053 Email : echaazi@gmail.com mathewranganai@yahoo.com mranganai@sirdc.ac.zw		Issue No : 02 Date of Issue : 19 August 2024 Expiry Date : 12 June 2027		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
At SIRDc-NMI				
1	Thermocouples - Base Metals	Internal: THP01 Reference: SADCAS TR 26; EURAMET cg-8	- 50 °C to 0 °C	0,9 °C
			0 °C to 90 °C	0,4 °C
			90 °C to 280 °C	1,2 °C
			280 °C to 660 °C	1,2 °C
2	Ice Point Reference	Internal: THP02 Reference: SADCAS TR 26	0,0 °C	0,05 °C
3	Thermometers - Digital Thermometers	Internal: THP03 Reference: SADCAS TR 26; EURAMET cg-11	- 50 °C to 0 °C	0,13 °C
			0 °C to 90 °C	0,25 °C
			90 °C to 280 °C	0,6 °C
			280 °C to 660 °C	1,2 °C

Original date of accreditation: 15 March 2012

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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%.

ANNEXURE A

Laboratory Accreditation No: CAL-14 002 (ISO/IEC 17025:2017)

Issue No: 02

Date of Issue: 19 August 2024

Date of Expiry: 12 June 2027

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	METHOD	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)
				At SIRDC-NMI
4	Electrical Simulation - Digital Thermometers	Internal: THP04 Reference: SADCAS TR 26 EURAMET cg-11	- 200 °C to 1700 °C	1,2 °C
5	Platinum Resistance Thermometers	Internal: THP05 Reference: SADCAS TR 26	- 50 °C to 0 °C	0,13 °C
			0 °C to 90 °C	0,25 °C
			90 °C to 280 °C	0,6 °C
			280 °C to 660 °C	1,2 °C
6	Liquid in Glass Thermometers	Internal: THP06 Reference: SADCAS TR 26 ISO 386:1977	- 50 °C to 90 °C	0,25 °C
			90 °C to 150 °C	0,6 °C
			150 °C to 300 °C	0,82 °C
				At SIRDC-NMI & Onsite
7	Digital Thermometers	Internal: THP03 and THP08 Reference: SADCAS TR 26	- 50 °C to 0 °C	0,3 °C
			0 °C to 90 °C	0,4 °C
			30 °C to 280 °C	0,7 °C
			280 °C to 660 °C	1,5 °C

Original date of accreditation: 15 March 2012

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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%.

Pinkie J Malebe
SADCAS Technical Manager