

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:-

NATIONAL METROLOGY INSTITUTE OF SOUTH AFRICA PRESSURE METROLOGY LABORATORY

Facility Accreditation Number: **1614**

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

PRESSURE 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 R Josias
Chief Executive Officer

Effective Date: 01 August 2019
Certificate Expires: 18 May 2024

ANNEXURE A

SCOPE OF ACCREDITATION

PRESSURE METROLOGY

Accreditation Number: 1614

Permanent Address of Laboratory: National Metrology Institute of SA Pressure Metrology Laboratory Building 5, CSIR Campus Meiring Naude Road Brummeria 0001		Technical Signatories: Mr B Yalisi Mr T Khoza		
Postal Address: Private Bag X 34 Lynnwood Ridge 0040 Tel: (012) 841-3193 Fax: (012) 841-2131 E-mail: byalisi@nmisa.org ntatamala@nmisa.org		Nominated Representative: Ms L Ntatamala Issue No.: 11 Date of Issue: 01 August 2019 Expiry Date: 18 May 2024		
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	Absolute Pressure			
1.1	Gas Medium			
1.1.1 1.1.2 1.1.3 1.1.4	Pressure Gauges Pressure Transducers, Calibrators Barometers Pressure Balances	1.4 kPa to 180 kPa 180 kPa to 700 kPa 0,7 MPa to 7 MPa	(1 + 2,5*10 ⁻⁵ p) Pa, (p in Pa) (1 + 2,8*10 ⁻⁵ p) Pa, (p in Pa) (5 + 5*10 ⁻⁵ p) Pa, (p in Pa)	Calibration by direct comparison with a standard or the cross-float method
2	Gauge Pressure			
2.1	Gas Medium			
2.2.1 2.1.3	Pressure Measuring device (Pressure Transducers, Gauges, Calibrators) Pressure Balances	1.4 kPa to 180 kPa 180 kPa to 700 kPa 0,7 MPa to 7 MPa	(0,1 + 2.5*10 ⁻⁵ p) Pa, (p in Pa) (2,9*10 ⁻⁵ p), (p in Pa) (2 + 4,5*10 ⁻⁵ p) Pa, (p in Pa)	Calibration by direct comparison with a standard or the cross-float method

Original Date of Accreditation: 01 August 2003

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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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2.2	Liquid Medium			
2.2.1	Pressure Measuring devices (Transducers, Gauges and Calibrators)	0,5 MPa to 50 Mpa 50 MPa to 100 Mpa	($1,4 \cdot 10^{-4} + 4,4 \cdot 10^{-5} p$) MPa (p in MPa) ($5,4 \cdot 10^{-5} + 5,8 \cdot 10^{-5} p$) MPa (p in MPa)	Calibration by direct comparison with a standard or
2.2.2	Pressure Balances	100 MPa to 500 MPa	($2,7 \cdot 10^{-4} + 7,4 \cdot 10^{-5} p$) MPa (p in MPa)	the cross-Float method

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Accreditation Manager