South African National Accreditation System

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:-

UNIQUE METROLOGY (PTY) LTD
PRESSURE CALIBRATION LABORATORY
Co. Reg. No.: 2003/007288/07

Accreditation Number: **205**

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 M Phaloane
Acting Chief Executive Officer

Effective Date: 28 October 2020
Certificate Expires: 27 September 2025

ANNEXURE A

SCOPE OF ACCREDITATION

PRESSURE METROLOGY

Accreditation Number: 205

Permanent Address of Laboratory: Unique Metrology (Pty) Ltd 63 Charl Cilliers Avenue Alberton 1450	**Technical Signatories:** Mr MG Mathieson Mr AJ Mathieson
Postal Address: P O Box 145296 Bracken Gardens 1452	**Nominated Representative:** Mr AJ Mathieson
Tel: (011) 626-3808 Fax: 086 610 4196 E-mail: ajm@unimet.co.za	Issue No.: 19 Date of Issue: 28 October 2020 Expiry Date: 27 September 2025

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
1.1	**Mass Standard**			
	Pressure Balance Weights	5 g to 12 kg	0,005 % + 2 mg	Single substitution method or direct measurement on a calibrated balance or scale.
3.1	**Absolute Pressure**			
3.1.1	Gas Medium • Barometer • Pressure Gauges • Pressure Transmitters	1,0 kPa to 260 kPa 260 kPa to 700 kPa 700 kPa to 10,1 MPa	15 Pa 0,01 % + 15 Pa 0,01 % + 115 Pa	Calibration by comparison with an absolute pressure balance or reference barometer.
3.1.2	Liquid Medium • Pressure Gauge • Pressure Transmitters • Digital Indicators	85 kPa to 60,1 MPa	0,01 % + 115 Pa	Calibration by comparison with an absolute pressure balance.

Original Date of Accreditation: 1987

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

Accreditation No.: 205
Date of Issue: 28 October 2020
Expiry Date: 27 September 2025

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD / PROCEDURE
3.2	**Gauge Pressure**			
3.2.1	Gas Medium • Pressure Gauge • Digital Manometer • Pressure Transmitters • Pressure Controllers	- 85 kPa to - 25 kPa - 25 kPa to - 7 kPa - 7 kPa to + 7 kPa 7 kPa to 25 kPa 25 kPa to 100 kPa 100 kPa to 10 MPa	10 Pa 5 Pa 2 Pa 5 Pa 10 Pa 0,01 %	Calibration against a reference pressure transducer or gauge or pressure balance (DWT)
	• Dead Weight Testers	1,5 kPa to 700 kPa 700 kPa to 15 MPa	0,01 % 0, 01 % + 100 Pa	Calibration by cross floating.
3.2.2	Liquid Medium • Pressure Gauge • Pressure Transmitters • Pressure Recorders	0,1 MPa to 60 MPa 60 MPa to 70 MPa	0,01 % + 100 Pa 0,03 %	Calibration by comparison against a reference pressure transducer or gauge or pressure balance (DWT)
	• Dead Weight Testers	0 MPa to 60 MPa 60 MPa to 70 MPa	0,01 % 0,02 %	Calibration by cross floating.
3.3	**Differential Pressure**			
3.3.1	Gas Medium • Pressure Measuring Devices	- 400 kPa to + 400 kPa Note: Static Pressure to 30 MPa	± 0,05 % + 10 Pa	Calibration against a reference differential pressure transducer or gauge or pressure balance
6	On-site calibration for items 3.1 and 3.2 above			

Original Date of Accreditation: 1987

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%

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

Digitally signed by Neville Tayler
Date: 2020.11.14 10:13:34
+02'00'

Accreditation Manager