sanas
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:-

DM LABORATORY SUPPLIES CC
Co. Reg. No.: 1996/023347/23

TRADING AS
LABTRONIC
TIME AND FREQUENCY CALIBRATION LABORATORY

Accreditation Number: **CAL 024-05-00**

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

TIME AND FREQUENCY 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: 15 April 2024
Certificate Expires: 18 June 2027

ANNEXURE A

SCOPE OF ACCREDITATION

TIME AND FREQUENCY METROLOGY

Accreditation Number: CAL 024-05-00

Permanent Address of Laboratory: DM Laboratory Supplies CC; t/a Labtronic Time and Frequency Calibration Laboratory 9 Paulus Street Kamma Park Port Elizabeth 6070	**Technical Signatories:** Mr D van Tonder Mr SJ van Tonder
Postal Address: Postnet Suite 111 Private Bag X0002 Sunridge Park 6008	**Nominated Representative:** Mrs M van Tonder
Tel: (041) 379-4620 Fax: 086 556 4027 E-mail: labtronic@mweb.co.za	Issue No.: 14 Date of Issue: 15 April 2024 Expiry Date: 18 June 2027

ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	METHOD/ PROCEDURE
3	**Time Interval**			
3.4	**Time Interval Meter**			
3.4.5	Stop watch calibration	1 s to 3 600 s	200 ms	Direct measurement of the time interval using a reference standard.
5	**Rotational Speed**			
5.1	Medical and Laboratory Centrifuges - Non-contact	60 rpm to 1 000 rpm 1 000 rpm to 90 000 rpm	0,06 % + 0,1 rpm 0,06 % + 1 rpm	Direct measurement method using a reference tachometer.
5.3	Tachometers Non – Contact	60 rpm to 1 000 rpm 1 000 rpm to 90 000 rpm	0,06 % + 0,1 rpm 0,06 % + 1 rpm	Comparison with reference tachometer or frequency counter using rotational speed generator or optical simulator.
5.6	Other rotating devices	60 rpm to 90 000 rpm	0,06 % + 1 rpm	Direct measurement method using a reference tachometer.
7	On-site calibration for items 3 & 5 above			

Original Date of Accreditation: 01 October 2002

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

Accreditation Manager