

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:-

PRECISION MEASUREMENTS (PTY) LTD

Co. Reg. No.: 2015/168932/07

Facility Accreditation Number: 550

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 T Baleni
Acting Chief Executive Officer

Effective Date: 30 September 2021
Certificate Expires: 29 September 2026

ANNEXURE A

SCOPE OF ACCREDITATION
TIME AND FREQUENCY METROLOGY

Facility Number: 550

Permanent Address of Laboratory: Precision Measurements (Pty) Ltd Building 8 CSIR Campus Meiring Naude Road Lynnwood 0081		Technical Signatories: Mr W Botha		
Postal Address: P O Box 39203 Moreleta Park 0044		Nominated Representative: Mr W Botha		
Tel: (012) 035-0219 Fax: (086) 768-3066 E-mail: willemb@precisiongroupsa.com		Issue No.: 03 Date of Issue: 30 September 2021 Expiry Date: 29 September 2026		
ITEM	MEASURED QUANTITY OR TYPE OF GAUGE OR INSTRUMENT	RANGE OF MEASURED QUANTITY	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	METHOD / PROCEDURE
2	Frequency			
2.1	Standard Frequency Source			
2.1.1	Frequency	Specific values: 1 MHz; 5 MHz; 10 MHz	$3 \cdot 10^{-11} \cdot f$	Calibration by direct measurement against laboratory standard.
2.2	General Frequency Source			
2.2.1	General Frequency Source	Other Values: 10 mHz to 1 MHz 1 MHz to 1,3 GHz 1,3 GHz to 26,5 GHz	$1 \cdot 10^{-10} \cdot f + 15 \mu\text{Hz}$ $1 \cdot 10^{-10} \cdot f$ 2 Hz	Calibration by direct measurement against laboratory standard.
2.3	Frequency Meter			
2.3.1	Frequency Counter	Other Values: 10 mHz to 1 MHz 1 MHz to 1,3 GHz 1,3 GHz to 26,5 GHz	$1 \cdot 10^{-10} \cdot f + 15 \mu\text{Hz}$ $1 \cdot 10^{-10} \cdot f$ 2 Hz	Calibration by direct measurement against laboratory standard.
2.3.2	Frequency Meter			
7	On-Site Calibration for all items above.			

Original Date of Accreditation: 27 May 2016

Page 1 of 1

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