

## CALIBRATION CERTIFICATE

Certificate Number: 394448/1

<b>Customer Name &amp; Address</b>	National Bioproducts Institute 10 Eden Road, Pinetown, 3610	<b>Date Calibration</b>	06/10/2025
		<b>Due Date</b>	06/10/2026
		<b>Date of Issue</b>	13/10/2025
		<b>Contact Name</b>	Taryn Lambert
		<b>Contact No</b>	0317146738

### DETAILS OF UNIT UNDER CALIBRATION (UUC)

<b>Name of Instrument</b>	: DIGITAL PRESSURE GAUGE	<b>Identification No</b>	: 1738LF4
<b>Make</b>	: WIKA	<b>Serial No</b>	: 1738LF4
<b>Model</b>	: CPG500	<b>Range</b>	: 0 to 16 bar
<b>Location</b>	: LABFIX	<b>Resolution/Least Count</b>	: 0.001 bar
<b>Condition of Instrument</b>	: Acceptable for Calibration : Yes	<b>Calibration Location</b>	: In House
<b>Department</b>	: PRESSURE LABORATORY	<b>Calibration Procedure</b>	: CP01

<b>Environmental Conditions:</b>	<b>Temperature:</b> 22.9 °C	<b>Humidity:</b> 48 %RH
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### DETAILS OF STANDARD USED FOR CALIBRATION

Instrument Name	Serial No	Certificate No	Expiry Date
Electrical Pressure Gauge	5231103+24020047	01-11686	11/01/2026
Temperature/Humidity Meter	LCA 11/410	194096	08/01/2026

**Discipline :** Mechanical - Pressure Indicating devices**Calibration Results**

Set Point on UUC	Applied Pressure Rising	Applied Pressure Falling	Applied Pressure Average	Deviation	Expanded Uncertainty (±)
	M1 (↑)	M2 (↓)			
bar	bar	bar	bar	bar	bar
0	0.000	0.000	0.000	0.000	0.04
4	4.002	3.998	4.000	0.000	0.04
8	8.005	8.001	8.003	0.003	0.14
12	12.005	12.001	12.003	0.003	0.14
16	15.996	15.996	15.996	-0.004	0.14

**Repeatability**

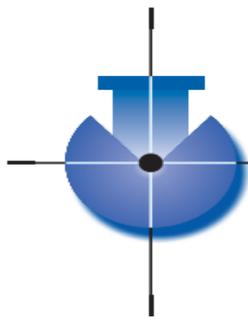
8.000	8.005	8.005	8.005	8.004	8.005
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**Notes:**

- . The results reported relate only to the calibration item/s mentioned above.
- . The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, which provides a level of confidence of approximately 95%, the uncertainty of measurement has been estimated in accordance with the principles defined in the GUM, Guide to Uncertainty of Measurement, ISO, Geneva, 2008. The accuracies of all measurements were traceable to national measuring standards as maintained in South Africa unless otherwise noted . Any statement of conformity includes the associated uncertainties of measurement unless otherwise noted.
- . The results reflected on this certificate were entered directly on the PC.



<b>Calibrated By</b>	<b>Technical Signatory</b>
Oganesan	Seshum Naidoo
	
<b>Calibration Technician</b>	<b>Metrologist</b>



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### VALIDITY/CONDITIONS OF CALIBRATION

1. The values of this certificate and its results were correct at the time of calibration. Subsequent accuracy will depend on various factors such as handling, frequency of use, operating temperature and operation other than specified by the manufacturer.
2. It is recommended that re-calibration be undertaken at an interval that will ensure that the instrument remains within the desired limits. The results of the measurements are traceable to the national or international measurement standards.
3. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.
4. In the event of any erroneous calibration / certification of work performed for the applicant, any legal liability arising shall be limited to the cost of re-calibration and / or certification. LABFIX will not be held responsible for any claims, consequential damage or loss.
5. The calibration status expires if the seal is broken, or the instrument is adjusted or tampered with.
6. This certificate may not be reproduced except in full without the written approval of LABFIX.

Calibrated By	Technical Signatory
Oganesan	Seshum Naidoo
	
Calibration Technician	Metrologist