



R&D Instrument Services

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CC - 2828

CERTIFICATE OF CALIBRATION

ULR-CC282825000013398F

FT/RD/CT/53

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Certificate Number	CS/25/LB/MP/443-01	Date of Issue:	10.09.2025
Customer Name & Address	M/s. Chavanke Engineering Private Limited No :110/2, Gangamai Industrial Complex, MIDC, Ambad, Nashik Maharashtra-422 010 India.		
Customer Reference	DC No.:805 dt.:04.09.2025		
Environmental Conditions	Temperature : (23±1.5)°C	Humidity : (50±20)%RH	
Calibration Method	As Per Work Instruction Number:	WI/RD/PR/01	
Calibrated By	U.N.Jenifer	Calibrated at	Lab

DETAILS OF THE UNIT UNDER CALIBRATION

Description	Digital Pressure Gauge
Serial Number	NAIM2408147
Tag Number	P-19
Make	Adarsh
Model No.	FN-501
Range	-1 to 3 bar
Resolution	0.0001 bar
Accuracy	± 0.05%FS
Condition of UUC Received	Satisfactory
Date of Receipt	08.09.2025
Date of Calibration	10.09.2025
Next Calibration Due	10.09.2026

DETAILS OF THE STANDARD INSTRUMENT USED FOR CALIBRATION

Description	Digital Pressure Indicator
Make	GE Druck
ID No./Serial No.	P-50 / 12270088 / 12229460 / 12229582
Traceability	National Standards
Certificate No.	CS/25/LB/MP/211-01
Validity	19.06.2026

Mechanical Calibration-Pressure and Vacuum

Calibration Results

Pressure:

Unit Under Calibration P _{ind} bar	Standard Instrument P _{std} bar				Mean Value MP _{std} bar
	Rising M ₁	Falling M ₂	Rising M ₃	Falling M ₄	
0.0000	0.0000	-0.0001	-0.0001	-0.0001	-0.0001
0.3000	0.2995	0.2996	0.2995	0.2996	0.2996
0.7500	0.7494	0.7495	0.7494	0.7495	0.7495
1.1250	1.1242	1.1243	1.1242	1.1243	1.1243
1.5000	1.4988	1.4990	1.4989	1.4990	1.4989
1.8750	1.8736	1.8738	1.8737	1.8738	1.8737
2.2500	2.2485	2.2486	2.2485	2.2486	2.2486
2.6250	2.6233	2.6234	2.6233	2.6234	2.6234
3.0000	2.9982	2.9982	2.9983	2.9983	2.9983

An ISO 9001 Certified Company

Accredited Calibration Laboratory

As per ISO / IEC 17025

For Mechanical, Thermal, Electrotechnical & Fluid Flow



1st Floor, No. 5, Natesan Nagar, Alapakkam, Chennai-600116.

Tamilnadu, INDIA, Tel.: +91-44-4283 9039 / 4284 1119

Mobile Nos.: +91-93810 38463 / 73583 93983

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Certificate Number: CS/25/LB/MP/443-01

Unit Under Calibration	Error	Zero Deviation	Repeatability	Hysteresis	Expanded Uncertainty $\pm$
P_{ind} bar	ΔP bar	f_0 bar	b' bar	h bar	U bar
0.0000	0.0001	-	-	-	-
0.3000	0.0004	0.0001	0.0001	0.00010	0.00015
0.7500	0.0005	0.0001	0.0001	0.00010	0.00015
1.1250	0.0007	0.0001	0.0001	0.00010	0.00027
1.5000	0.0011	0.0001	0.0002	0.00015	0.00029
1.8750	0.0013	0.0001	0.0002	0.00015	0.00029
2.2500	0.0014	0.0001	0.0001	0.00010	0.00029
2.6250	0.0016	0.0001	0.0001	0.00010	0.00034
3.0000	0.0017	0.0001	0.0002	0.00000	0.00039

Vacuum:

Unit Under Calibration P_{ind} bar	Standard Instrument P_{std} bar				Mean Value MP_{std} bar
	Rising M_1	Falling M_2	Rising M_3	Falling M_4	
0.0000	0.0000	0.0001	0.0001	0.0001	0.0001
-0.1000	-0.0995	-0.0996	-0.0995	-0.0996	-0.0996
-0.2500	-0.2493	-0.2494	-0.2493	-0.2494	-0.2494
-0.3750	-0.3741	-0.3742	-0.3741	-0.3742	-0.3742
-0.5000	-0.4989	-0.4990	-0.4989	-0.4990	-0.4990
-0.6250	-0.6238	-0.6239	-0.6238	-0.6239	-0.6239
-0.7500	-0.7489	-0.7490	-0.7489	-0.7490	-0.7490
-0.8750	-0.8736	-0.8737	-0.8736	-0.8737	-0.8737
-1.0000	-0.9985	-0.9985	-0.9986	-0.9986	-0.9986



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Unit Under Calibration	Error	Zero Deviation	Repeatability	Hysteresis	Expanded Uncertainty $\pm$
P_{ind} bar	ΔP bar	f_0 bar	b' bar	h bar	U bar
0.0000	-0.0001	-	-	-	-
-0.1000	-0.0004	0.0001	0.0001	0.00010	0.00014
-0.2500	-0.0006	0.0001	0.0001	0.00010	0.00015
-0.3750	-0.0008	0.0001	0.0001	0.00010	0.00015
-0.5000	-0.0010	0.0001	0.0001	0.00010	0.00015
-0.6250	-0.0011	0.0001	0.0001	0.00010	0.00017
-0.7500	-0.0010	0.0001	0.0001	0.00010	0.00017
-0.8750	-0.0013	0.0001	0.0001	0.00010	0.00017
-1.0000	-0.0014	0.0001	0.0002	0.00000	0.00019

Remarks :

1) $MP_{std} = \sum m_i / 4$;

2) $\Delta p = P_{ind} - MP_{std}$;

3) $f_0 = \max \{ |M_{2,0} - M_{1,0}|, |M_{4,0} - M_{3,0}| \}$;

4) $b' = \max \{ |(M_{3,j} - M_{3,0}) - (M_{1,j} - M_{1,0})|, |(M_{4,j} - M_{4,0}) - (M_{2,j} - M_{2,0})| \}$;

5) $h = 1/2 \{ |(M_{2,j} - M_{1,0}) - (M_{1,j} - M_{1,0})| + |(M_{1,j} - M_{3,0}) - (M_{3,j} - M_{3,0})| \}$;

Where, j - stands for numbers of nominal values of the pressure.

6) As per IS : 3624-1987, SI unit of Pressure is Pascal (Pa). 1 Pascal (Pa) = 10^{-5} bar.

T. Pandi Kumar
Authorised Signatory

T. Pandi Kumar

Technical Manager



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