TRUE COPY

BAUMER TECHNOLOGIES INDIA PVT. LTD.(CALIBRATION DIVISION)

CALIBRATION CERTIFICATE BTIN(CD)/F/7.8/02

Receipt Date of Instrument:	20.11.2024			**Calibration Certificate of**	
Customers Ref. No.:	Challan No.18112024/07			Digital Pressure Gauge	
Condition of the Instrument :	Good			**Range:**	0 to 1400 bar
Date of Calibration		**Recommended due date of Cal.**	**Certificate Issue Date**	**Certificate No.:**	24112003
20.11.2024		19.11.2025	20.11.2024	**Date:**	20.11.2024
Discipline:	Mechanical		**Location**	**ULR No.:** CC276724000001416F	
Sub Group:	Pressure Indicating Devices		In Lab		

1.0 NAME & ADDRESS OF THE PARTY: **M/s .NCQC Laboratory LLP**
4, Abhishree Corporate Park,
Near Swagat bunglow BRTS, Iskcon - Ambli Road,
Ambli, Ahmedabad - 380 058, Gujarat, India

2.0 CALIBRATION REQUEST FORM NO.: 24112003

3.0 DETAILS OF INSTRUMENT CALIBRATED:

*NAME	*MAKE	*SR. No/*ID No.	*RANGE	*RESOLUTION	*ACCURACY
Digital Pressure Gauge	Druck	2967029/ NCQC/M-78	0 to 1400 bar	0.1 bar	± 0.05% FS

4.0 ENVIRONMENTAL CONDITIONS: **TEMPERATURE:** (23 ± 1°C)
HUMIDITY: (45 to 55%RH)

5.0 DETAILS OF STANDARD USED:

MAKE & TYPE	SR. NO.	RANGE	UNCERTAINTY	Certified By (NABL Certi.No)	CERTIFICATE NO.	NEXT CAL.
Oil Operated Piston Gauge, DHI, USA	1187	5 to 200 MPa (50 to 2000 bar)	±68 ppm + 120 Pa	Minerva, Netherland	4240310	29-02-2029

*As Specified by the Customer

Note : 1. The Standard used for calibration are calibrated by using reference traceable to National / International standard.

Note : 2. Traceablility Details : Reference equipment is traceable to NIST- vide Certificate No. 4240310 dated 29.02.2024 accredited to RVA,Netherland.
This certificate provides traceability of measurement to recognized International Standards and to the units of measurement realized at Recognized by National Metrological Institutes.

Note : 3. Reference document for calibration : BTIN(CD)/TOP/7.2/02 & DKD -R 6-1:2014.

Note : 4. Calibration of Pressure gauge done by an accredited Laboratory is meant for Scientific & Industrial purpose only.

CALIBRATED BY

Keyur Lad
Laboratory Technician

APPROVED BY

Ankita Patel
Technical Manager

NCQC LABORATORY LLP
Valid up to 19/11/2025
Reviewed

NCQC System Certificate No. 39

Certificate No.:	24112003
Range (R) :	0 to 1400 bar

OBSERVATION TABLE:

Sr.	Pressure Indicated	Observed Reading On STD. in bar				Average Value P_{avg} in bar	Error in bar	Repeatability in bar	Hysteresis of Avg Reading	Expanded Uncertainty in bar U (±)
No.	P_{act}	M1	M2	M3	M4	[((M1+M3)/2)+((M2+M4)/2)]/2	$(P_{act}-P_{avg})$	MAX{|(M3-M1)|,|(M4-M2)|}	{|(M2-M1)|+|(M4-M3)|}/2	
1	0.0	0.00000	0.00000	0.00000	0.00000	0.0000	0.0000	0.0000	0.0000	0.059
2	140.0	140.05680	140.05700	140.05720	140.05600	140.0568	-0.0568	0.0010	0.0007	0.059
3	200.0	200.08090	200.08110	200.08130	200.07780	200.0803	-0.0803	0.0033	0.0018	0.060
4	400.0	400.14650	400.14670	400.14690	400.14570	400.1465	-0.1465	0.0010	0.0007	0.068
5	600.0	600.17890	600.17920	600.17940	600.17700	600.1786	-0.1786	0.0022	0.0014	0.092
6	800.0	800.11980	800.12000	800.12020	800.11750	800.1194	-0.1194	0.0025	0.0014	0.092
7	1000.0	1000.1965	1000.1967	1000.1969	1000.1949	1000.1963	-0.1963	0.0018	0.0011	0.107
8	1200.0	1200.2014	1200.2016	1200.2019	1200.1987	1200.2009	-0.2009	0.0029	0.0017	0.122
9	1400.0	1400.4987	1400.4989	1400.4992	1400.4969	1400.4984	-0.4984	0.0020	0.0012	0.139

The expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor, k = 2.0 providing the 95.45% confidence level.

Notes:
1) Calibration has been done without adjustment.
2) Calibration Points & due date are provided as per customer recommendation.
3) This certificate refers only to the particular item submitted for calibration.
4) Above results are "pass" as per baumer decision rule.
5) The certificate should not be reproduced expect in full or part without the prior permission from the Technical Director-BTIN Lab

Any anomalies/discrepancies in this report should be brought to our notice within 45 days from the date of issue of this report

CALIBRATED BY

Keyur Lad
Laboratory Technician

CHECKED BY

Ankita Patel
Technical Manager

APPROVED BY

Ankita Patel
Technical Manager