

Laboratory Baumer Technologies India Pvt. Ltd., (Calibration Division), Phase-1,
Plot No. 34, GIDC, Vapi, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2767 **Page** 1 of 4

Validity 04.07.2018 to 03.07.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Calibration of Vernier Caliper [§]	0 to 600 mm	12.7 μ m	Using Caliper Checker, by comparison method
2.	Calibration of External Micrometer [§]	0 to 25 mm	7.0 μ m	Using and Slip Gauges with Stand by comparison method
II. PRESSURE INDICATING DEVICES				
1.	Pneumatic Pressure (Digital/ Analogue Pressure Gauges, Pressure Modules/ Transmitter with & without Indicator, Pressure Calibrator, Pressure Chart Recorder) [§]	0.2 bar to 3.5 bar(g) 1.0 bar to 70 bar (g)	0.0068 % rdg 0.0072 % rdg	Using Piston Gauge, DHI with PG terminal and MPC1 by Comparison Method as per DKD R6-1:2014
2.	Vacuum (Digital/ Analogue Vacuum Gauges, Vacuum Modules/Transmitter with & without Indicator, Vacuum Calibrator) [§]	(-) 1.0 bar to 0.0 bar(g)	0.0065 % rdg	Using Piston Gauge, DHI with PG terminal and MPC1 by Comparison Method as per DKD R6-1:2014
3.	Pneumatic Vacuum / Pressure Dead Weight Tester based on Pressure Method [§]	(-) 1 bar to 3.5 bar (g) 0.4 bar to 70 bar (g)	0.013 % rdg 0.014% rdg	Using Piston Gauge, DHI with PG terminal and MPC1 by Cross float Method as per Euramet Cg3 Ver 1.0 (03/2011)

Ram Ashray
Convenor

Avijit Das
Program Manager

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4.	Calibration of Low Pressure (Digital Manometer, Magnehelic Gauges, Pressure Transmitter) #	(-) 12.5 mbar to 12.5 mbar (-) 25.0 mbar to 25.0 mbar (-) 100.0 mbar to 100.0 mbar	0.079 mbar 0.072 mbar 0.092 mbar	Using Digital Manometer with Low Pressure Pump by Comparison Method as per DKD R6-1:2014
5.	Pneumatic Pressure (Digital/ Analogue Pressure Gauges, Pressure Modules/ Transmitter with & without Indicator, Pressure Calibrator, Pressure Chart Recorder) #	0 to 2.0 bar (g) 0 to 20.0 bar (g) 0 to 30.0 bar (g) 0 to 70.0 bar (g)	0.036 % rdg 0.041 % rdg 0.050 % rdg 0.050 % rdg	Using Digital Pressure Gauge and Pressure Calibrator with Pressure Pump by Comparison Method as per DKD R6-1:2014
6.	Vacuum (Digital/ Analogue Vacuum Gauges, Vacuum Modules/Transmitter with & without Indicator, Vacuum Calibrator) #	(-)1.0 bar to 0.0 bar (g)	0.034 % rdg	Using Digital Vacuum Gauge and Vacuum Calibrator with Vacuum Pump By Comparison Method as per DKD R6-1:2014
7.	Digital/ Analogue Pressure Gauges, Pressure Modules/ Transmitters with & without indicator, Pressure Calibrators, Pressure Chart Recorder ^s	50.0 bar to 2000.0 bar	0.009 % rdg	Using Piston Gauge, DHI with PG terminal with HP Pump by Comparison Method as per DKD R6-1:2014

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	Digital /Analog Temp. Gauge/ RTD & Thermocouple with Indicator/ RTD & Thermocouple without Indicator/ Indicator of Temperature Bath [#]	(-) 196 °C (-) 80 °C to 0 °C 0 to 150 °C 150 °C to 600 °C	0.11 °C 0.106 °C 0.06 °C 0.06 °C	Using SPRT with Indicator MFC (MC2) & Source: Liquid Nitrogen (Fix Point) by Comparison Method Using SPRT with Indicator MFC (MC2) & Source: Dry Block & Liquid Bath By Comparison Method
2.	Digital / Analog Temp. Gauge/ RTD & Thermocouple with Indicator/ RTD & Thermocouple without Indicator/ Indicator of Temperature Bath [#]	600 °C to 1200 °C	1.72 °C	Using 'S' type Thermocouple with DAQ (6½ Digit) & Dry Block Calibrator with Resolution 0.1 °C By Comparison Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

\$ Only in Permanent Laboratory

The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Ram Ashray
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