



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SMTECH ENGINEERING SOLUTION, GAT NO-77, PLOT NO-05, JYOTIBANAGAR, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-3239	Page No	1 of 8
Validity	20/04/2021 to 19/04/2023	Last Amended on	-

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Pneumatic : Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Absolute Process Calibrator with MFC and Vacuum + Pneumatic Pump ,By comparison method as per DKD-R-6-1	0.05 bar to 1.6 bar	0.00031bar
2	MECHANICAL-PRESSURE INDICATING DEVICES	High Vacuum : Dial and Digital Vacuum Gauges, Pirani gauges ,Ionisation Gauges, Vacuum Transmitters	Using Pfeiffer Compact full Range Pirani/Cold Cathode Gauge with indicator and High vacuum system By comparison method as per DKD-R-6-1 and DKD-R-6-2	10 ⁻² mbar to 100 mbar	3.1% of reading
3	MECHANICAL-PRESSURE INDICATING DEVICES	High Vacuum : Dial and Digital Vacuum Gauges, Pirani gauges ,Ionisation Gauges, Vacuum Transmitters	Using Pfeiffer compact full Range Pirani /Cold Cathode Gauge with indicator and High Vacuum System By comparison method as per DKD-R-6-1 and DKD-R-6-2	10 ⁻⁶ mbar to 10 ⁻² mbar	13.0% of reading
4	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic High Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic High Pressure Pump By comparison method as per DKD-R-6-1	>1000 bar to 2500 bar	0.880bar



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5	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic High Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic High Pressure Pump By comparison method as per DKD-R-6-1	>2500 bar to 4000 bar	1.83bar
6	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic High Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic High Pressure Pump By comparison method as per DKD-R-6-1	>700 bar to 1000 bar	0.120bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic Pump By comparison method as per DKD-R-6-1	>160 bar to 700 bar	0.075bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic Pump By comparison method as per DKD-R-6-1	0 bar to 160 bar	0.042bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>0.25 bar to 2.5 bar	0.00032bar



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10	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>16 bar to 40 bar	0.0043bar
11	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>2.5 bar to 16 bar	0.002bar
12	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters, Magnehelic Gauges , Pressure Switches	Using Low Pressure Calibrator with MFC and pneumatic pump By comparison method as per DKD-R-6-1	>25 mbar to 250 mbar	0.11mbar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters, Magnehelic Gauges , Pressure Switches	Low Pressure Calibrator with MFC and pneumatic pump , By comparison method as per DKD-R-6-1	0 mbar to 25 mbar	0.017mbar



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14	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum : Dial and Digital Vacuum Gauges, Vacuum Transmitters , Vacuum Switches	Process Vacuum Calibrator with MFC and Vacuum pump By comparison method as per DKD-R-6-1	-0.95 bar to 0 bar	0.00022bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum : Dial and Digital Vacuum Gauges, Vacuum Transmitters , Vacuum Switches, Magnehelic Gauges	Using Low Vacuum Calibrator Process Vacuum Calibrator with MFC and Vacuum pump By comparison method as per DKD-R-6-1	>-25 mbar to -250 mbar	0.2mbar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum : Dial and Digital Vacuum Gauges, Vacuum Transmitters , Vacuum Switches, Magnehelic Gauges	Using Low Vacuum Calibrator Process Vacuum Calibrator with MFC and Vacuum pump By comparison method as per DKD-R-6-1	-25 mbar to 0 mbar	0.021mbar



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Site Facility					
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2	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic High Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic High Pressure Pump By comparison method as per DKD-R-6-1	>1000 bar to 2500 bar	0.880bar
3	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic High Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic High Pressure Pump By comparison method as per DKD-R-6-1	>2500 bar to 4000 bar	1.83bar
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6	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and Hydraulic Pump By comparison method as per DKD-R-6-1	0 bar to 160 bar	0.042bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>0.25 bar to 2.5 bar	0.00032bar
8	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>16 bar to 40 bar	0.0043bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Dial and Digital Pressure Gauges, Pressure Transmitters , Pressure Switches	Process Calibrator with MFC and pneumatic Pump , By comparison method as per DKD-R-6-1	>2.5 bar to 16 bar	0.002bar



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* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.