

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303, K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 1 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
1.	SOURCE			
1.	Temperature Simulation (Indicator / Controller / Recorder/ Scanner/ Data Logger) Compatible with K-Type Thermocouple [#]	0 °C to 1370.0 °C	1.0 °C	Using Thermocouple Simulator By Direct Method
2.	Time Interval [#]	60.0 s to 3600.0 s	0.71 s	Using Digital Timer, By Comparison Method

Mamta Bharti
Convenor

Avijit Das
Program Manager

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303, K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 2 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>FLUID-FLOW CALIBRATION</u>				
1.	All Flow Rate Metering Devices such as Digital Flow Meter, Air Flow Meter, Laminar Flow Meter/Element, Mass Flow Controller, Mass Flow Meter, Gas Flow Meter, Rotameter, Blower Flow etc. #	1 cc/min to 500 cc/min	1.46 % Rdg.	Using Laminar Flow Calibrator/ Air Flow Calibrator /Orifice Flow Calibrator By Comparison Method
		200 cc/min to 25000 cc/min	0.76 % Rdg.	
		1 lpm to 100 lpm	0.83 % Rdg.	
		30 lpm to 250 lpm	1.32 % Rdg.	
		180 lpm to 2400 lpm	1.46 % Rdg	Using Top Loading Orifice Flow Calibrator By Comparison Method

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303, K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 3 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. ACCOUSTICS				
1.	Sound Level Calibrator [§]	1 kHz 73 dB to 114 dB	1.78 dB	Using Sound Level Meter By Direct Method
2.	Sound Level Meter [§]	94 dB @1 kHz 114 dB @1 kHz	1.3 dB	Using Sound Level Calibrator By Direct Method
II. PRESSURE INDICATING DEVICES				
1.	Analog / Digital Vacuum Gauge, Vacuum Transmitter [#]	(-) 900 mbar to 0 mbar	0.42 mbar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
2.	Analog / Digital Pneumatic Pressure Gauge, Manometer, Differential Gauge, Magnehelic Gauge, Transmitter [#]	0 to 500 Pa	0.30 Pa	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
3.	Analog / Digital Pneumatic Pressure Gauge, Manometer, Differential Gauge & Magnehelic Gauge Transmitter [#]	0 to 2100 Pa	1.0 Pa	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
4.	Analog / Digital Pneumatic Pressure Gauge, Manometer,	0 to 210 mbar	0.12 mbar	Using Polltech Digital Pressure Calibrators By comparison Method

Mamta Bharti
Convenor

Avijit Das
Program Manager

Laboratory

**PI Calibration Laboratory (A Division of Polltech Instruments), 303,
K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai,
Maharashtra**

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2528

Page

4 of 7

Validity

18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
	Differential Gauge & Magnehelic Gauge Transmitter [#]			(as per DKD-R-6-1)
5.	Analog / Digital Pneumatic Pressure Gauge, Manometer, Differential Gauge, Transmitter [#]	0 to 2100 mbar	0.36 mbar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
6.	Analog/Digital Absolute Pressure Gauge Transmitter [#]	100 mbar to 1075 mbar Absolute	0.3 mbar A	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-2)
7.	Analog / Digital Pneumatic Pressure Gauge, Transmitter Absolute Pressure [#]	0 to 10.5 bar Gauge/Absolute	0.004 bar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-2)
8.	Analog / Digital Pneumatic Pressure Gauge, Transmitter [#]	0 to 30 bar	0.01 bar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
9.	Analog / Digital Hydraulic Pressure Gauge, Transmitter [#]	0 to 300 bar	0.48 bar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
10.	Analog / Digital Hydraulic Pressure Gauge, Transmitter [#]	0 to 700 bar	0.4 bar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)

Mamta Bharti
Convenor

Avijit Das
Program Manager

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303,
K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai,
Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 5 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
11.	Analog / Digital Pneumatic Pressure Gauge, Manometer, Differential Gauge, Transmitter [#]	0 to 60 mbar	0.02 mbar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)
12.	Analog / Digital Pneumatic Pressure Gauge, Manometer, Differential Gauge, Transmitter [#]	0 to 600 mbar	0.20 mbar	Using Polltech Digital Pressure Calibrators By comparison Method (as per DKD-R-6-1)

Mamta Bharti
Convenor

Avijit Das
Program Manager

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303, K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 6 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	All Type of RTD's, Thermocouples with or without Controller/Indicator/ Data-Logger/ Recorder, Dial Temperature Gauge, Digital Thermometer & Temperature Transmitter ,Digital Thermometer, Thermistor [#]	(-) 35.00 °C to 120.00 °C 120.0 °C to 500.0 °C 500.0 °C to 1200.0 °C	0.48 °C 3.31 °C 4.0 °C	Using Standard Resistance Temperature Meter/with RTD (Pt-100) Sensor/ Thermocouple Temperature Meter with S-Type Thermocouple, 6½ Digital Fluke Multimeter as a Readout & Source : Liquid & Dry Block Temperature Baths By Comparison Method
2.	Temperature Indicator with Sensor/ Thermocouple of Freezer, Oven Temperature Bath/ Furnace*	(-) 35.00 °C to 120.00 °C 120.0 °C to 500.0 °C 500.0 °C to 1200.0 °C	0.48 °C 3.31 °C 3.46 °C	Using Standard Resistance Temperature Meter/with RTD (Pt-100) Sensor/ Thermocouple Temperature Meter with S-Type Thermocouple, 6½ Digital Fluke Multimeter as a readout By Comparison Method (Single Position Calibration)
3.	Glass Thermometer [#]	(-) 35.00 °C to 100.00 °C	0.45 °C	Using Standard Resistance Temperature Meter with RTD (Pt-100) Sensor, Source : Liquid Temperature Bath By Comparison Method

Mamta Bharti
Convenor

Avijit Das
Program Manager

Laboratory PI Calibration Laboratory (A Division of Polltech Instruments), 303, K.K. Gupta Industrial Estate, Dr. R.P. Road, Mulund (W), Mumbai, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2528

Page 7 of 7

Validity 18.01.2018 to 17.01.2020

Last Amended on 11.12.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
II.	SPECIFIC HEAT & HUMIDITY			
1.	Relative Humidity Indicator of Humidity Calibrator/Generator / Chamber [#]	20% RH to 92% RH 5 °C to 50 °C	1.67%RH 0.46°C	Using Temperature & Humidity Meter with Sensor By Comparison Method (Single Position Calibration)
2.	Digital/Analogue Thermo-Hygrometer, Dry & Wet Thermometer [§]	20 % RH to 92 % RH 5°C to 50°C	1.67%RH 0.46°C	Using Temperature & Humidity Meter with Sensor Source RH Calibrator & Thermal Chamber By Comparison Method

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

§ Only in Permanent Laboratory

* Only for Site Calibration

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

Mamta Bharti
Convenor

Avijit Das
Program Manager