

Laboratory Krishna Calibration, 0/41/3, Sarkhej, Ahmedabad, Gujarat
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2341 **Page** 1 of 4
Validity 10.08.2017 to 09.08.2019 **Last Amended on** --

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	MEASURE			
1.	Timer [#]	1 min to 10 hrs	0.33 sec to 1.13 sec	Using Digital Stop Watch by Comparison Method
2.	Temperature [#] (By Simulation Method) Pt-100 K Type Thermocouple	(-)200°C to 600°C 200°C to 1200°C	0.53 °C 0.58 °C	Using Multifunction calibrator Bemax/MC2-TE by Direct Method
		(-) 25 mV to 150mV	-25 mV to 150mV - 0.068%	
		0.25 V to 10 V	1 V to 10 V 0.3 % to 0.05 %	
		150 mV to 250m V	150 mV to 250m V 0.1%	Using Universal calibrator G.P by Direct Method
4.	DC Current [#]	4 mA to 20 mA	0.07% to 0.052%	Using Multifunction calibrator Bemax/MC2-TE by Direct Method
II.	SOURCE			
1.	Temperature [#] (By Simulation Method) Pt-100 K Type Thermocouple	(-)200°C to 600°C 200°C to 1200°C	0.53 °C 0.58 °C	Using Multifunction calibrator Bemax/MC2-TE by Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
2.	DC Voltage [#]	(-) 25 mV to 150mV	(-)25 mV to150mV - 0.076%	Using Multifunction calibrator Bemax/MC2-TE by Direct Method
		0.25 V to 10 V	1 V to 10 V 0.3 % to 0.041 %	
		150 mV to 1 V	150 mV to 250m V 0.1%	Using Universal calibrator G.P by Direct Method
		4 mA to 5 mA	4 mA to 5mA 2.76%	Using Multifunction calibrator fluke /725 by Direct Method
		5 mA to 20 mA	5 mA to 20 mA 0.052%	Using Multifunction calibrator Bemax/MC2-TE by Direct Method

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<u>MECHANICAL CALIBRATION</u>				
I.	PRESSURE INDICATING DEVICES			
1.	Pressure Hydraulic Dial And Digital Pressure Gauges [#]	0 to 30 bar 30 to 70 bar 70 to 700 bar	0.011 bar 0.02 bar 0.23 bar	Using Digital Pressure Indicators with Hydraulic Pump as per DKD-R-6-1
2.	Pressure Pneumatic Dial And Digital Pressure Gauges [#]	0 to 2000 Pa 0 to 100 mbar	1.0 Pa 0.074 mbar	Using Digital Pressure Indicators with Pneumatic Pump as per DKD-R-6-1
3.	Vacuum Dial And Digital Vacuum Gauges [#]	(-).9 to 0 bar	0.0007 bar	Using Digital Pressure Indicators with Pneumatic Pump as per DKD-R-6-2
II.	ACCELERATION AND SPEED			
1.	Rpm Non Contact* Centrifuge/ Compression/ Coating Rotators	100 to 1000 RPM 1000 to 5000 RPM 5000 to 15000RPM	0.62 % Rdg 0.3 % Rdg 0.3 % Rdg	Using Digital Non Contact Type Tachometer Direct Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>THERMAL CALIBRATION</u>				
I. TEMPERATURE				
1.	RTD & Thermocouple Sensor With and Without Indicators [#]	(-) 80°C to 0°C 0°C to 150°C 150°C to 400°C	0.60°C to 0.20 °C 0.56 °C 1.22°C	Using RTD Sensor With Indicator & Dry Well Baths, Liquid Baths by Comparison Method
2.	Digital Thermo Hygrometer, Humidity Indicator [#]	20 to 93 % RH @ 10 to 50°C	0.91 °C 2.5 % RH	Using Digital Thermo Hygrometer With Humidity/ Temperature Chamber by Comparison Method
3.	Glass Thermometer [§]	(-) 10°C to 100°C 100°C to 150°C	0.57 °C 1.20 °C	Using RTD Sensor With Indicator & Liquid Bath by Comparison Method
4.	RTD & Thermocouple Indicator for Baths, Chambers, Freezer, Ovens* (Single Position Calibration)	(-) 80°C to 0°C 0°C to 150°C 150°C to 400°C	0.60°C to 0.20 °C 0.56 °C 1.22°C	Using RTD Sensor With Indicator & Liquid Bath by Comparison Method
5.	Ovens, Chambers, Freezer, Baths*	(-)20 to 50 °C 24 to 85 % RH	2.5 °C 4.8 % RH	Using Multipoint by Mapping Method

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

*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.

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