National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NAVASHVAR CALIBRATION SERVICES, NO. 303, ANAND BUILDING, ROOM NO. 09, FIRST FLOOR, POONAMALLEE HIGH ROAD, KILPAUK, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate A. Digital Air Flow Meters B. Rotameters C. Mass Flow Meter	Using Mass Flow Meter by Comparison method	0.18 SLPM to 20 SLPM	1.75 %
2	FLUID FLOW-FLOW MEASURING DEVICES	Digital Air Flow Meters, Rotameters, Mass Flow Meter (Air Flow Rate)	Using Mass Flow Meter by Comparison method	> 100 SLPM to 250 SLPM	1.44 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Digital Air Flow Meters, Rotameters, Mass Flow Meter (Air Flow Rate)	Using Mass Flow Meter by Comparison method	> 20 SLPM to 100 SLPM	1.62 %
4	MECHANICAL-ACCELERATION AND SPEED	Contact Type - Tachometer RPM indicator	Using Digital Tachometer by Comparison Method	60 rpm to 4000 rpm	3.5 rpm
5	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type - Tachometer RPM indicator	Using Digital Tachometer, RPM Source by Comparison Method	> 5000 rpm to 60000 rpm	9.8 rpm
6	MECHANICAL-ACCELERATION AND SPEED	Non Contact Type - Tachometer RPM indicator	Using Digital Tachometer, RPM source by Comparison Method	10 rpm to 5000 rpm	1.71 rpm

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7	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge, Absolute Pressure Indicator (Analog/Digital) (Pneumatic - Absolute Pressure)	Using Digital Pressure Gauge (Absolute) by Pneumatic Pump Comparison method as per DKD-R6-1	0 to 10 bar (abs)	0.019 bar (abs)
8	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge, Barometer, Absolute Pressure Indicator (Analog/Digital) (Pneumatic - Absolute Pressure)	Using Digital Pressure Gauge (Absolute) with Pneumatic Pump, Vacuum Chamber by Comparison method as per DKD-R6-1	0 to 2 bar(abs)	0.009 bar (abs)
9	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Hydraulic Pump by Comparison method as per DKDR6-1	0 to 700 bar	0.38 bar

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10	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison method as per DKD-R6-1	(-) 20 mbar to 0	0.032 mbar
11	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison Method as per DKD R6-1	(-) 200 mbar to 0	0.149 mbar

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12	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using low pressure Calibrator with Screw Pump by Comparison method as per DKD-R6-1	0 to 20 mbar	0.033 mbar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison Method as per DKD R6-1	0 to 200 mbar	0.142 mbar
14	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Gauge with Pneumatic Pump by Comparison method as per DKD-R6-1	0 to 2 bar	0.001 bar

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15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method DKD-R6-1	0 to 35 bar	0.036 bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method DKD-R6-1	0 to 20 bar	0.016 bar
17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Vacuum Gauge, Vacuum Calibrator, Vacuum Transducer with Indicator, Vacuum Switches/ Vacuum Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method as per DKDR6-1	(-) 0.95 bar to 0	0.001 bar

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18	MECHANICAL-VOLUME	Micropipette	Using Digital Balance of 80 g / 200 g (Readability: 0.01 mg / 0.1 mg) & Distilled Water of Known Density by Gravimetric Method as per ISO 8655 (Part 6):2022	100 µl to 200 µl	0.38 µl
19	MECHANICAL-VOLUME	Micropipette	Using Digital Balance of 80 g / 200 g (Readability: 0.01 mg / 0.1 mg) & Distilled Water of Known Density by Gravimetric Method as per ISO 8655 (Part 6):2022	1000 µl to 5000 µl	6.5 µl
20	MECHANICAL-VOLUME	Micropipette	Using Digital Balance of 80 g / 200 g (Readability: 0.01 mg / 0.1 mg) & Distilled Water of Known Density by Gravimetric Method as per ISO 8655 (Part 6):2022	20 µl to 100 µl	0.38 µl

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21	MECHANICAL-VOLUME	Micropipette	Using Digital Balance of 80 g / 200 g (Readability: 0.01 mg / 0.1 mg) & Distilled Water of Known Density by Gravimetric Method as per ISO 8655 (Part 6):2022	200 µl to 1000 µl	0.73 µl
22	MECHANICAL-VOLUME	Micropipette	Using Digital Balance of 80 g / 200 g (Readability: 0.01 mg / 0.1 mg) & Distilled Water of Known Density by Gravimetric Method as per ISO 8655 (Part 6):2022	5 ml to 10 ml	9.8 µl
23	MECHANICAL-VOLUME	Pipettes, Burettes, Volume flasks, Graduated jar, Conical flask, Measuring Jar, Measuring Cylinder, Standard Flask,	Using Electronic Balance (Readability : 0.01 mg) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	1 ml to 10 ml	0.028 ml

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24	MECHANICAL-VOLUME	Pipettes, Burettes, Volume flasks, Graduated jar, Conical flask, Measuring Jar, Measuring Cylinder, Standard Flask,	Using Electronic Balance (Readability : 0.01mg) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	10 ml to 50 ml	0.028 ml
25	MECHANICAL-VOLUME	Pipettes, Burettes, Volume flasks, Graduated jar, Conical flask, Measuring Jar, Measuring Cylinder, Standard Flask,	Using Electronic Balance (Readability : 0.1 mg, 0.001 g) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	50 ml to 200 ml	0.202 ml
26	MECHANICAL-VOLUME	Pipettes, Burettes, Volume flasks, Graduated jar, Conical flask, Measuring Jar, Measuring Cylinder, Standard Flask,	Using Electronic Balance(Readability : 0.01 g) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	1000 ml to 2000 ml	0.83 ml
27	MECHANICAL-VOLUME	Pipettes, Burettes, Volume flasks, Graduated jar, Conical flask, Measuring Jar, Measuring Cylinder, Standard Flask,	Using Electronic Balance (Readability : 0.001 g) with Distilled Water as per ISO 4787:2021 by Gravimetric Method	200 ml to 500 ml	0.38 ml

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28	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic balance, class II and coarser (Readability: 0.01g)	Using Standard Weights of Class E1, E2 & F1 as per OIML R 76-1	0 to 4000 g	12 mg
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic balance, class III and coarser (Readability: 0.1g)	Using Standard Weights of Class E1, E2 & F1 as per OIML R 76-1	5 g to 32000 g	0.15 g
30	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class III and Coarser d = 1 g and coarser	Using Standard Weights of F1 Class as per OIML R 76-1	0 kg to 60 kg	1.2 g
31	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (readability 0.1mg)	Using Standard Weights of Class E1 as per OIML R 76-1	80 g to 220 g	0.13 mg
32	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (readability 0.01mg)	Using Standard Weights of Class E1 as per OIML R 76-1	0 to 80 g	0.025 mg
33	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class II & coarser (readability: 1 mg)	Using Standard Weights of Class E1 & E2 as per OIML R 76-1	0 to 1020 g	1.5 mg
34	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class IV & coarser (readability: 10 g)	Using Standard Weights of Class E2, F1 & M1 as per OIML R 76-1	100 g to 150 kg	10 g

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35	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 standard reference weights Electronic balance Readability:0.001g, based on OIML R 111-1	1 kg	1.3 mg
36	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 standard reference weights Electronic balance Readability:0.1mg, based on OIML R 111-1	100 g	0.47 mg
37	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	10 mg	0.032 mg
38	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 standard reference weights Electronic balance Readability:0.01g, based on OIML R 111-1	2 kg	12 mg
39	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	20 mg	0.014 mg

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40	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 standard reference weights Electronic balance Readability:1 mg, based on OIML R 111-1	500 g	7.6 mg
41	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 standard reference weights Electronic balance Readability:0.1g, based on OIML R 111-1	10 kg	120 mg
42	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 standard reference weights Electronic balance Readability:0.1g, based on OIML R 111-1	20 kg	93.5 mg
43	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 standard reference weights Electronic balance Readability:0.1g, based on OIML R 111-1	5 kg	60 mg
44	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Standard Weights & Electronic Balance Readability: 1g by ABBA Method as per OIML R-111-1	50 kg	756 mg

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45	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	1 g	0.02 mg
46	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	10 g	0.08 mg
47	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	2 g	0.02 mg
48	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	20 g	0.05 mg
49	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability:0.1mg, based on OIML R 111-1	200 g	0.15 mg

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50	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	5 g	0.02 mg
51	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	50 g	0.03 mg
52	MECHANICAL-WEIGHTS	Weights (F1 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	500 mg	0.02 mg
53	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	1 mg	0.02 mg
54	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	100 mg	0.02 mg

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55	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	2 mg	0.01 mg
56	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	200 mg	0.06 mg
57	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	5 mg	0.02 mg
58	MECHANICAL-WEIGHTS	Weights (F2 class and Coarser)	Using E1 standard reference weights Electronic balance Readability :0.01mg, based on OIML R 111-1	50 mg	0.02 mg

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59	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/ Analog Thermo Hygrometer, Humidity Sensor with indicator, Data Logger, Temperature and Humidity Transmitter	Using Humidity Chamber & Humidity and Temperature Meter with Sensor by Comparison Method.	15 % rh to 95 % rh @ 25 °C	1.3 % rh
60	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital/ Analog Thermo Hygrometer, Humidity Sensor with indicator, Data Logger, Temperature and Humidity Transmitter	Using Humidity Chamber & Humidity and Temperature Meter with Sensor by Comparison Method.	5 °C to 50 °C @ 50 % rh	0.28 °C
61	THERMAL-TEMPERATURE	RTD Sensor With / Without Indicator Thermocouple Sensor With / Without Indicator, Temperature Gauge	Using Standard RTD with Digital Thermometer, Dry Block Temperature Bath, 6½ Digital Multimeter by Comparison Method	(-) 30 °C to 110 °C	0.19 °C
62	THERMAL-TEMPERATURE	RTD Sensor With / Without Indicator Thermocouple Sensor With / Without Indicator, Temperature Gauge	Using Standard RTD with Digital Thermometer , Dry Block Temperature Bath, 6½ Digital Multimeter by Comparison Method	100 °C to 400 °C	0.23 °C

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63	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath, Dry Block Calibrators (Single position)	Using Standard RTD with Digital Thermometer by Comparison Method	(-) 80 °C to 400 °C	0.23 °C
64	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath, Dry Block Calibrators (Single position)	Using Standard S-Type Thermocouple with Digital Thermometer by Comparison Method	400 °C to 1200 °C	2.2 °C
65	THERMAL-TEMPERATURE	Thermocouple Sensor With / Without Indicator, Temperature Gauge	Thermocouple (S - type) with Digital Thermometer, Dry Block Temperature Bath, & 6½ Digital Multimeter by Comparison Method	400 °C to 650 °C	0.77 °C

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Site Facility					
1	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate A. Digital Air Flow Meters B. Rotameters C. Mass Flow Meter	Using Mass Flow Meter by Comparison method	0.18 SLPM to 20 SLPM	1.75 %
2	FLUID FLOW-FLOW MEASURING DEVICES	Digital Air Flow Meters, Rotameters, Mass Flow Meter (Air Flow Rate)	Using Mass Flow Meter by Comparison method	> 100 SLPM to 250 SLPM	1.44 %
3	FLUID FLOW-FLOW MEASURING DEVICES	Digital Air Flow Meters, Rotameters, Mass Flow Meter (Air Flow Rate)	Using Mass Flow Meter by Comparison method	> 20 SLPM to 100 SLPM	1.62 %
4	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments) (Medium of Calibration Liquid – Water)	Using Clamp on Ultrasonic Flowmeter by Comparison Method	0.33 m3/hr to 14 m3/hr	1.7 %
5	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments) (Medium of Calibration Liquid – Water)	Using Clamp on Ultrasonic Flowmeter by Comparison Method	14 m3/hr to 290 **m3/hr**	1.9 %

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6	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate-(liquid flow meter & flow measuring equipments) (Medium of Calibration Liquid – Water)	Using Clamp on Ultrasonic Flowmeter by Comparison Method	70 m3/hr to 350 m3/hr	1.9 %
7	MECHANICAL-ACCELERATION AND SPEED	Speed (Non - Contact Type) RPM Indicator of Centrifuges / RPM Test Rigs / Stirrers / RPM Indicators	Using Digital Tachometer by Comparison Method	10 rpm to 1000 rpm	2 rpm
8	MECHANICAL-ACCELERATION AND SPEED	Speed (Non - Contact Type) RPM Indicator of Centrifuges / RPM Test Rigs / Stirrers / RPM Indicators	Using Digital Tachometer by Comparison Method	1000 rpm to 5000 rpm	3.6 rpm
9	MECHANICAL-ACCELERATION AND SPEED	Speed (Non - Contact Type) RPM Indicator of Centrifuges / RPM Test Rigs / Stirrers / RPM Indicators	Using Digital Tachometer by Comparison Method	5000 rpm to 20000 rpm	15 rpm
10	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge, Absolute Pressure Indicator (Analog/Digital) (Pneumatic - Absolute Pressure)	Using Digital Pressure Gauge (Absolute) by Pneumatic Pump Comparison method as per DKD-R6-1	0 to 10 bar (abs)	0.019 bar (abs)

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11	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge, Barometer, Absolute Pressure Indicator (Analog/Digital) (Pneumatic - Absolute Pressure)	Using Digital Pressure Gauge (Absolute) with Pneumatic Pump, Vacuum Chamber by Comparison method as per DKD-R6-1	0 to 2 bar(abs)	0.009 bar (abs)
12	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Hydraulic Pump by Comparison method as per DKDR6-1	0 to 700 bar	0.38 bar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison method as per DKD-R6-1	(-) 20 mbar to 0	0.032 mbar

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14	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison Method as per DKD R6-1	(-) 200 mbar to 0	0.149 mbar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using low pressure Calibrator with Screw Pump by Comparison method as per DKD-R6-1	0 to 20 mbar	0.033 mbar

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16	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Low Pressure Manometer, Magnehelic Gauge, Differential Pressure Gauge, Transducers/Transmitters with Indicator, Switches Low Pressure Gauge, Low Pressure Calibrator	Using Low Pressure Calibrator with Screw Pump by Comparison Method as per DKD R6-1	0 to 200 mbar	0.142 mbar
17	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Gauge with Pneumatic Pump by Comparison method as per DKD-R6-1	0 to 2 bar	0.001 bar
18	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method DKD-R6-1	0 to 35 bar	0.036 bar

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19	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge, Pressure Calibrator, Pressure Transducer with Indicator, Pressure Switches/ Pressure Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method DKD-R6-1	0 to 20 bar	0.016 bar
20	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Vacuum Gauge, Vacuum Calibrator, Vacuum Transducer with Indicator, Vacuum Switches/ Vacuum Transmitter with Indicator	Using Digital Pressure Calibrator with Pneumatic Pump by Comparison method as per DKDR6-1	(-) 0.95 bar to 0	0.001 bar
21	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic balance, class II and coarser (Readability: 0.01g)	Using Standard Weights of Class E1, E2 & F1 as per OIML R 76-1	0 to 4000 g	12 mg
22	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic balance, class III and coarser (Readability: 0.1g)	Using Standard Weights of Class E1, E2 & F1 as per OIML R 76-1	5 g to 32000 g	0.15 g
23	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class III and Coarser d = 1 g and coarser	Using Standard Weights of F1 Class as per OIML R 76-1	0 kg to 60 kg	1.2 g

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24	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (readability 0.1mg)	Using Standard Weights of Class E1 as per OIML R 76-1	80 g to 220 g	0.13 mg
25	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class I & coarser (readability 0.01mg)	Using Standard Weights of Class E1 as per OIML R 76-1	0 to 80 g	0.025 mg
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class II & coarser (readability: 1 mg)	Using Standard Weights of Class E1 & E2 as per OIML R 76-1	0 to 1020 g	1.5 mg
27	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance - Class IV & coarser (readability: 10 g)	Using Standard Weights of Class E2, F1 & M1 as per OIML R 76-1	100 g to 150 kg	10 g
28	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber, Climate Chamber, Humidity Generator and Humidity Chambers (Multi Position)	Using Humidity Sensor with Data Logger (minimum nine sensor) by Multiposition Method	15 % rh to 95 % rh @ 25 °C	3.3 % rh
29	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Temperature & Humidity Chamber, Environmental chamber, Climate Chamber, Humidity Generator	Using Humidity and Temperature meter with sensor by comparison Method	15 % rh to 95 % rh @ 25 °C	1.3 % rh

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30	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Temperature & Humidity Chamber, Environmental chamber, Climate Chamber, Humidity Generator	Using Humidity and Temperature meter with sensor by comparison Method	5 °C to 50 °C @ 50 % rh	0.3 °C
31	THERMAL-TEMPERATURE	Bath, Deep Freezer, Freezer, Refrigerator, Thermal/Environmental Chamber, Water Bath, Hot Air Oven, Incubator only for Industrial Application), Autoclave (only for Industrial Application) (Multiposition)	Using Standard RTD with Data Logger (minimum nine Sensors) by Multiposition method	(-) 80 °C to 250 °C	2.86 °C
32	THERMAL-TEMPERATURE	RTD Sensor With / Without Indicator Thermocouple Sensor With / Without Indicator, Temperature Gauge	Using Standard RTD with Digital Thermometer, Dry Block Temperature Bath, 6½ Digital Multimeter by Comparison Method	(-) 30 °C to 110 °C	0.19 °C

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33	THERMAL-TEMPERATURE	RTD Sensor With / Without Indicator Thermocouple Sensor With / Without Indicator, Temperature Gauge	Using Standard RTD with Digital Thermometer , Dry Block Temperature Bath, 6½ Digital Multimeter by Comparison Method	100 °C to 400 °C	0.23 °C
34	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath, Dry Block Calibrators (Single position)	Using Standard RTD with Digital Thermometer by Comparison Method	(-) 80 °C to 400 °C	0.23 °C
35	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Bath, Dry Block Calibrators (Single position)	Using Standard S-Type Thermocouple with Digital Thermometer by Comparison Method	400 °C to 1200 °C	2.2 °C
36	THERMAL-TEMPERATURE	Temperature Indicator/ Controller with Sensor of Baths, Environmental Chamber, Freezer, Deep Freezer, Refrigerator (Single position).	Using Standard RTD with Digital Thermometer by Comparison Method	(-) 80 °C to 50 °C	0.22 °C
37	THERMAL-TEMPERATURE	Temperature Indicator/ Controller with Sensor of Furnace (Single position)	Using Standard S-Type Thermocouple with Digital Thermometer by Comparison Method	50 °C to 1200 °C	2.2 °C

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38	THERMAL-TEMPERATURE	Temperature Indicator/ Controller with Sensor of Hot Air Oven, Incubator (Single position)	Using Standard RTD with Digital Thermometer by Comparison Method	50 °C to 250 °C	0.22 °C
39	THERMAL-TEMPERATURE	Thermocouple Sensor With / Without Indicator, Temperature Gauge	Thermocouple (S - type) with Digital Thermometer, Dry Block Temperature Bath, & 6½ Digital Multimeter by Comparison Method	400 °C to 650 °C	0.77 °C

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