

As an accredited laboratory, this laboratory is entitled to use the following accreditation symbol.



Valid from 28 October 2015
to 27 October 2018
Issued on 28 October 2015



Schedule of Accreditation

Accreditation Scheme for Testing/Calibration Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: CL 007-01

Lanka Calibration Services (Pvt) Ltd
No. 27/14A
Rosmead Place
Colombo 07.

Scope of Accreditation: Performing electrical (Multimeter, clamp meter, insulation testers), frequency (Tachometers), mechanical (Pressure) and thermal (Digital thermometers) as per the calibration methods given in the schedule of accreditation.

The laboratory is accredited for the calibration as given page 02 onwards.

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (CMC) Approximately at 95% Confidence Level	Location
01	Digital multimeter	LCS/TM/05: Rev : 00	2 mV	Comparison with Fluke Digital Multimeter 8808A 5.5 digit multimeter	0.0055 mV	LCS Premises only
1.1	DC Voltage		5 mV		0.0056 mV	
			10 mV		0.0058 mV	
			15 mV		0.0059 mV	
			20 mV		0.0061 mV	
			22.1 mV		0.0061 mV	
			50 mV		0.0070 mV	
			100 mV		0.0085 mV	
			150 mV		0.011 mV	
			200 mV		0.012 mV	
			0.221 V		0.030 mV	
			0.4 V		0.033 mV	
			0.6 V		0.037 mV	
			0.8 V		0.040 mV	
			1 V		0.043 mV	
			1.2 V		0.047 mV	
			1.4 V		0.050 mV	
			1.6 V		0.053 mV	
			1.8 V		0.057 mV	
			2 V		0.060 mV	
			2.21 V		0.25 mV	
			2.5 V		0.26 mV	
			5 V		0.30 mV	
			7.5 V		0.34 mV	
			10 V		0.38 mV	
			12.5 V		0.42 mV	
			15 V		0.46 mV	
		17.5 V	0.50 mV			
		20 V	0.56 mV			
		22.1 V	4.5 mV			
		200 V	11 mV			
		221 V	50 mV			
		1000 V	95 mV			

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1.2	DC Current	LCS/TM/05: Rev: 00	0 μ A 20 μ A 200 μ A 0.221 mA 2 mA 2.21 mA 20 mA 22.1 mA 200 mA 221 mA 2 A 2.21 A 20 A	Comparison with Fluke Digital Multimeter 8808A 5.5 digit	0.018 μ A 0.021 μ A 0.054 μ A 0.074 μ A 0.30 μ A 0.47 μ A 3 μ A 6.1 μ A 0.03 mA 0.12 mA 0.66 mA 3.9 mA 17 mA	LCS Premises only
1.3	AC Voltage	LCS/TM/05: Rev:00	200 mV at 60 Hz 200 mV at 200 Hz 200 mV at 1000 Hz 200 mV at 10 kHz 221 mV at 60 Hz 221 mV at 200 Hz 221 mV at 1 kHz 221 mV at 20 kHz 2 V at 60 Hz 2 V at 200 Hz 2 V at 1 kHz 2 V at 20 kHz 2.21 V at 60 Hz 2.21 V at 200 Hz 2.21 V at 1 kHz 2.21 V at 20 kHz 20 V at 60 Hz 20 V at 200 Hz 20 V at 1 kHz 20 V at 20 kHz	multimeter	0.22 mV 0.21 mV 0.22 mV 0.27 mV 0.28 mV 0.28 mV 0.28 mV 0.79 mV 0.99 mV 0.97 mV 0.97 mV 2.6 mV 3.2 mV 3.2 mV 3.2 mV 6.8 mV 0.011 V 0.011 V 0.011 V 0.025 V	

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1.4	AC voltage	LCS/TM/05: Rev:00	22.1 V at 60 Hz 22.1 V at 200 Hz 22.1 V at 1 kHz 200 V at 40 Hz 200 V at 60 Hz 200 V at 200 Hz 200 V at 1 kHz 221 V at 40 Hz 221 V at 60 Hz 221 V at 200 Hz 221 V at 1 kHz 700 V at 40 Hz 700 V at 60 Hz 700 V at 200 Hz 700 V at 1 kHz	Comparison with Fluke Digital Multimeter 8808A 5.5 digit multimeter	0.039 V 0.039 V 0.039 V 0.17 V 0.17 V 0.17 V 0.17 V 0.31 V 0.31 V 0.32 V 0.31 V 0.76 V 0.76 V 0.76 V 0.76 V	LCS Premises only
1.5	AC Current	LCS/TM/05: Rev:00	20 µA at 50 Hz 20 µA at 200 Hz 200 µA at 50 Hz 200 µA at 200 Hz 221 µA at 50 Hz 221 µA at 200 Hz 2 mA at 50 Hz 2 mA at 200 Hz 2.21 mA at 50 Hz 2.21 mA at 200 Hz 20 mA at 50 Hz 20 mA at 200 Hz 22.1 mA at 50 Hz 22.1 mA at 200 Hz		0.39 µA 0.39 µA 0.6 µA 0.6 µA 0.58 µA 0.58 µA 3.3 µA 3.3 µA 5.6 µA 5.6 µA 0.033 mA 0.033 mA 0.056 mA 0.056 mA	

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1.6	AC Current	LCS/TM/05: Rev:00	200 mA at 50 Hz 200 mA at 200 Hz 221 mA at 50 Hz 221 mA at 200 Hz 2 A at 50 Hz 2 A at 200 Hz 2.21 A at 50 Hz 2.21 A at 200 Hz 20 A at 50 Hz 20 A at 200 Hz		0.4 mA 0.4 mA 0.92 mA 0.92 mA 0.0051 A 0.0051 A 0.012 A 0.012 A 0.053 A 0.053 A	LCS Premises only
1.7	Resistance	LCS/TM/05: Rev:00	1 Ω 10 Ω 19 Ω 20 Ω 50 Ω 90 Ω 110 Ω 500 Ω 900 Ω 1.1 kΩ 5 kΩ 9 kΩ 10.1 kΩ 50 kΩ 90 kΩ 110 kΩ 500 kΩ 900 kΩ 1.1 MΩ 5 MΩ 9 MΩ 10 MΩ 50 MΩ 90 MΩ 120 MΩ		8.3 mΩ 9.4 mΩ 11 mΩ 11 mΩ 14 mΩ 19 mΩ 19 mΩ 65 mΩ 0.12 Ω 0.28 Ω 1.2 Ω 2.2 Ω 2.4 Ω 7.1 Ω 12 Ω 25 Ω 71 Ω 0.12 kΩ 0.37 kΩ 1.3 kΩ 2.3 kΩ 13 kΩ 62 kΩ 0.11 MΩ 0.15 MΩ	

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (CMC) Approximately at 95% Confidence Level	Location
1.8	Frequency	LCS/TM/05: Rev:00	20 Hz 50 Hz 200 Hz 1 kHz 10 kHz 100 kHz 500 kHz 1 MHz 10 MHz 100 MHz		0.48 mHz 1.8 mHz 4.8 mHz 0.027 Hz 0.27 Hz 2.7 Hz 18 Hz 0.027 kHz 0.27 kHz 2.7 kHz	LCS Premises only
1.9	AC Frequency, at 5V AC Frequency at 2V	LCS/TM/05: Rev:00	15 Hz 100 Hz 200 Hz 500 Hz 1000 Hz 2000 Hz 5000 Hz 10000 Hz 15000 Hz 20000 Hz 50 kHz 100 kHz 150 kHz 300 kHz 500 kHz 1 MHz		1.8 mHz 12 mHz 24 mHz 58 mHz 0.12 Hz 0.24 Hz 0.58 Hz 1.2 Hz 1.8 Hz 2.4 Hz 5.8 Hz 12 Hz 18 Hz 35 Hz 58 Hz 0.12 kHz	
1.10	AC Voltage @ High Frequency	LCS/TM/05: Rev:00	100 mV at 25 kHz 100 mV at 50 kHz 100 mV at 100 kHz 100 mV at 300 kHz 200 mV at 25 kHz 200 mV at 50 kHz 200 mV at 100 kHz 200 mV at 300 kHz		0.70 mV 0.70 mV 0.70 mV 1.3 mV 0.81 mV 0.81 mV 0.81 mV 1.4 mV	

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1.11	AC Voltage @ High Frequency	LCS/TM/05: Rev:00	0.25 V at 25 kHz 0.25 V at 50 kHz 0.25 V at 100 kHz 0.25 V at 500 kHz 0.25 V at 1MHz 1 V at 25 kHz 1 V at 50 kHz 1 V at 100 kHz 1 V at 500 kHz 1 V at 1MHz 2 V at 25 kHz 2 V at 50 kHz 2 V at 100 kHz 2 V at 500 kHz 2 V at 1MHz 2.5 V at 25 kHz 2.5 V at 50 kHz 2.5 V at 100 kHz 10 V at 25 kHz 10 V at 50 kHz 10 V at 100 kHz 20 V at 25 kHz 20 V at 50 kHz 20 V at 100 kHz		0.0013 V 0.0013 V 0.0013 V 0.015 V 0.015 V 0.0018 V 0.0018 V 0.0018 V 0.024 V 0.024 V 0.0024 V 0.0024 V 0.0024 V 0.035 V 0.035 V 0.022 V 0.022 V 0.022 V 0.035 V 0.035 V 0.035 V 0.052 V 0.052 V 0.052 V	LCS Premises only
02 2.1	Insulation Tester Resistance	LCS/TM/01: Rev:01	100 kΩ to 500 kΩ 1 MΩ to 5 MΩ 10 MΩ to 90 MΩ 100 MΩ 200 MΩ to 800 MΩ 900 MΩ 1 GΩ to 9 GΩ 10 GΩ to 100 GΩ		1.2% 1.2% 1.2% 1.2% 1.4% 1.2% 1.2% 5.8%	LCS Premises only

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2.2	Voltage (Measure)					
2.2.1	O/C voltage	LCS/TM/01: Rev:01	0.5 kV to 1.9 kV		1.3%	LCS Premises only
2.2.2	High voltage		2.5 kV to 10 kV		1.6%	
2.3	Current (Measure)					
2.3.1	S/C Current	LCS/TM/01: Rev:01	0.5 mA to 1.9 mA		1.3%	
2.3.2	Current		5 mA to 19 mA		1.3%	
03	Clamp - On Meter					
3.1	AC current (via jaw) (at 45 Hz to 65 Hz)	LCS/TM/02: Rev: 01	1 A to 2 A 2 A to 20 A 20 A to 100 A 100 A to 1000 A		0.59% + 0.24 A 0.59% + 0.81 A 0.61% + 0.25 A 0.62% + 0.87 A	LCS Premises only
3.2	DC current (via jaw)	LCS/TM/02: Rev:01	1 A to 2 A 2 A to 20 A 20 A to 100 A 100 A to 1000 A		0.57% + 0.06 A 0.58% + 0.18 A 0.56% + 0.092 A 0.58% + 0.2 A	
3.3	AC current (via cable)	LCS/TM/05: Rev:00			} CMC Values of Digital multimeter were taken as the CMC values for the parameters	
3.4	DC current (via cable)	LCS/TM/05: Rev:00				
3.5	AC voltage (via cable)	LCS/TM/05: Rev:00				

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (CMC) Approximately at 95% Confidence Level	Location
3.6	DC voltage (via cable)	LCS/TM/05:Rev:00			CMC Values of Digital multimeter were taken as the CMC values for the parameters	LCS Premises only
3.7	Resistance	LCS/TM/05:Rev:00				
3.8	Frequency	LCS/TM/05:Rev:00				
04 4.1	7051 Source DC Voltage Source		0 mV - 20 mV 20 mV - 200 mV 221 mV - 2 V 2.21 V - 20 V 22.1 V - 200 V 221 V - 1000 V	No Best existing device as generation mode is used	0.003% + 5.3 μ V 0.004% + 5.2 μ V 0.002% + 0.02 mV 0.002% + 0.2 mV 0.004% + 3.5 mV 0.006% + 0.035V	LCS Premises only
4.2	DC Current Source		0 μ A - 200 μ A 0.221 mA - 2 mA 2.21 mA - 20 mA 22.1 mA - 200 mA 0.221 A - 2 A 2.21 A - 20 A	No Best existing device as generation mode is used	0.02% + 0.018 μ A 0.01% + 0.04 μ A 0.01% + 0.1 μ A 0.01% + 3 μ A 0.03% + 50 μ A 0.07% + 2.3 mA	LCS Premises only
4.3	AC Voltage Source		200 mV at 60 Hz 200 mV at 200 Hz 200 mV at 1000 Hz 200 mV at 10 kHz 221 mV - 2 V at 60 Hz 221 mV - 2 V at 200 Hz 221 mV - 2 V at 1 kHz 221 mV - 2 V at 20 kHz 2.21 V - 20 V at 60 Hz 2.21 V - 20 V at 200 Hz 2.21 V - 20 V at 1 kHz 2.21 V - 20 V at 20 kHz	No Best existing device as generation mode is used	0.22 mV 0.21 mV 0.22 mV 0.27 mV 0.04% + 0.2 mV 0.04% + 0.2 mV 0.04% + 0.2 mV 0.1% + 0.6 mV 0.04% + 2.2 mV 0.04% + 2.2 mV 0.04% + 2.2 mV 0.1% + 4.5 mV	LCS Premises only

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4.4	AC Voltage Source		22.1 V - 200 V at 60 Hz 22.1 V - 200 V at 200 Hz 22.1 V - 200 V at 1kHz 221 V -700 V at 40 Hz 221 V -700 V at 60 Hz 221 V -700 V at 200 Hz 221 V -700 V at 1kHz	No Best existing device as generation mode is used	0.07% + 0.023 V 0.07% + 0.023 V 0.07% + 0.023 V 0.09% + 0.11 V 0.09% + 0.11 V 0.09% + 0.11 V 0.09% + 0.11 V	LCS Premises only
4.5	AC Current Source		20 μ A - 200 μ A at 50 Hz 20 μ A - 200 μ A at 200 Hz 0.221 mA - 2 mA at 50 Hz 0.221 mA - 2 mA at 200 Hz 2.21 mA - 20 mA at 50 Hz 2.21 mA - 20 mA at 200 Hz 22.1 mA - 200 mA at 50 Hz 22.1 mA - 200 mA at 200 Hz 0.221 A - 2 A at 50 Hz 0.221 A - 2 A at 200 Hz 2.21 A - 20 A at 50 Hz 2.21 A - 20 A at 200 Hz		0.12% + 0.35 μ A 0.12% + 0.35 μ A 0.15% + 0.2 μ A 0.15% + 0.2 μ A 0.15% + 2.2 μ A 0.15% + 2.2 μ A 0.19% + 0.014 mA 0.19% + 0.014 mA 0.23% + 0.4 mA 0.23% + 0.4 mA 0.23% + 7 mA 0.23% + 7 mA	LCS Premises only
4.6	Frequency Source		20 Hz - 100 MHz	No Best existing device as generation mode is used	24 ppm	LCS Premises only
4.7	Resistance Source (Full Range)		1 Ω - 19 Ω 20 Ω - 90 Ω 110 Ω - 900 Ω 1.1 k Ω - 9 k Ω 10.1 k Ω - 90 k Ω 110 k Ω - 900 k Ω 1.1 M Ω - 9 M Ω 10 M Ω - 120 M Ω	No Best existing device as generation mode is used	0.02% + 7.9 m Ω 0.01% + 8.5 m Ω 0.01% + 3.3 m Ω 0.02% + 3 m Ω 0.01% + 1.2 Ω 0.01% + 12 Ω 0.02% + 90 Ω 0.12% + 0.1 k Ω	LCS Premises only
4.8	Decade Resistance Source		1 Ω 10 Ω 100 Ω 1 k Ω 10 k Ω 100 k Ω 1 M Ω 10 M Ω 100 M Ω	No Best existing device as generation mode is used	0.0082 Ω 0.0093 Ω 0.018 Ω 0.00026 k Ω 0.0024 k Ω 0.024 k Ω 0.00035 M Ω 0.013 M Ω 0.12 M Ω	LCS Premises only

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4.9	Capacitance Source at 1 kHz		1 nF 10 nF 100 nF 1 uF 10 uF	No Best existing device as generation mode is used	0.018 nF 0.070 nF 0.58 nF 3.1 nF 0.059 uF	LCS Premises only
4.10	Inductance Source at 1 kHz		1 mH 1.9 mH 5 mH 10 mH 19 mH 50 mH 100 mH 190 mH 500 mH 1 H	No Best existing device as generation mode is used	0.0024 mH 0.0044 mH 0.012 mH 0.024 mH 0.044 mH 0.12 mH 0.24 mH 0.44 mH 1.2 mH 2.4 mH	LCS Premises only
4.11	AC Voltage @ High Frequency Source		100 mV - 200 mV at 25 kHz 100 mV - 200 mV at 50 kHz 100 mV - 200 mV at 100 kHz 100 mV - 200 mV at 300 kHz 0.25 V - 2 V at 25 kHz 0.25 V - 2 V at 50 kHz 0.25 V - 2 V at 100 kHz 0.25 V - 2 V at 500 kHz 0.25 V - 2 V at 1 MHz 2.5 V - 20 V at 25 kHz 2.5 V - 20 V at 50 kHz 2.5 V - 20 V at 100 kHz	No Best existing device as generation mode is used	0.12% + 0.58 mV 0.12% + 0.58 mV 0.12% + 0.58 mV 0.12% + 1.2 mV 0.06% + 1.2 mV 0.06% + 1.2 mV 0.06% + 1.2 mV 1.2% + 12 mV 1.2% + 12 mV 0.17% + 17 mV 0.17% + 17 mV 0.17% + 17 mV	LCS Premises only
05	7051 Measure					
5.1	DC Voltage Measure		0 mV 0 mV - 100 mV 100 mV - 1 V 1 V - 10 V 10 V - 100 V 100 V - 1000 V		0.0049 mV 0.011 mV 0.06 mV 0.48 mV 6.2 mV 65 mV	
5.2	AC Voltage Measure at 40 Hz		0 mV - 100 mV 100 mV - 1 V 1 V - 10 V 10 V - 100 V 100 V - 750 V		0.13mV 2.4 mV 24 mV 0.24 V 2.0 V	LCS Premises only
5.3	AC Voltage Measure at 60 Hz		0 mV - 100 mV 100 mV - 1 V 1 V - 10 V 10 V - 100 V 100 V - 750 V		0.13mV 2.4 mV 24 mV 0.24 V 2.0 V	

SI No	Parameter/ Measured Quantity/ Instrument or Gauge	Method of Calibration	Range	Readability / Resolution as applicable	Calibration Measurement Capability (CMC) Approximately at 95% Confidence Level	Location
5.4	AC Voltage Measure at 200 Hz		0 mV - 100 mV 100 mV - 1 V 1 V - 10 V 10 V - 100 V 100 V - 750 V		0.13 mV 2.4 mV 24 mV 0.24 V 2.0 V	LCS Premises only
5.5	AC Voltage Measure at 1kHz		0 mV - 100 mV 100 mV - 1 V 1 V - 10 V 10 V - 100 V 100 V - 750 V		0.13 mV 2.4 mV 24 mV 0.24 V 2.0 V	
5.6	DC Current Measure		0 mA 0 mA - 10 mA 10 mA - 100 mA 100 mA - 1 A 1 A - 3 A		0.0024 mA 0.0082 mA 0.064 mA 1.3 mA 4.9 mA	
5.7	AC Current at 200 Hz		0 mA - 1 A 1 A - 3 A		2.4 mA 10 mA	
5.8	Measure Resistance		0 Ω - 100 Ω 100 Ω - 1 k Ω 1 k Ω - 10 k Ω 10 k Ω - 100 k Ω 100 k Ω - 1 M Ω 1 M Ω - 10 M Ω 10 M Ω - 100 M Ω		17 m Ω 0.13 Ω 1.3 Ω 13 Ω 0.14 k Ω 4.8 k Ω 1.2 M Ω	
06	Calibration of Digital Thermometer	LCS/TM/03: Rev: 01	- 20 $^{\circ}$ C 0 $^{\circ}$ C 50 $^{\circ}$ C 100 $^{\circ}$ C 140 $^{\circ}$ C 200 $^{\circ}$ C 220 $^{\circ}$ C 440 $^{\circ}$ C 660 $^{\circ}$ C 880 $^{\circ}$ C 1100 $^{\circ}$ C	0.01 $^{\circ}$ C resolution short term stability 0.02 $^{\circ}$ C	0.08 $^{\circ}$ C 0.08 $^{\circ}$ C 0.08 $^{\circ}$ C 0.08 $^{\circ}$ C 0.08 $^{\circ}$ C 0.62 $^{\circ}$ C 0.66 $^{\circ}$ C 0.72 $^{\circ}$ C 3.1 $^{\circ}$ C 4.1 $^{\circ}$ C 4.1 $^{\circ}$ C	LCS Premises only

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07	7051 Simulation		100 °C -50 °C 0 °C 50 °C 100 °C 200 °C 300 °C 400 °C 500 °C 600 °C 700 °C 800 °C		0.083 °C 0.083 °C 0.092 °C 0.092 °C 0.092 °C 0.092 °C 0.18 °C 0.18 °C 0.18 °C 0.18 °C 0.18 °C 0.18 °C	LCS Premises only
7.1	PT100 Simulation					
7.2	TC Simulation					
7.2.1	Type K			-200 °C 100 °C 500 °C 1371 °C	0.38 °C 0.34 °C 0.34 °C 0.34 °C	
7.2.2	Type J			-209 °C 100 °C 700 °C	0.30 °C 0.27 °C 0.27 °C	
7.2.3	Type T			-200 °C 0 °C 395 °C	0.37 °C 0.29 °C 0.24 °C	
7.2.4	Type R			-45 °C 100 °C 1765 °C	1.5 °C 1.1 °C 0.78 °C	LCS Premises only
7.2.5	Type S			-45 °C 250 °C 1000 °C	1.4 °C 1.2 °C 0.99 °C	
7.2.6	Type B			300 °C 1000 °C 1815 °C	2.1 °C 1.2 °C 1.2 °C	
7.2.7	Type E			-200 °C -50 °C 995 °C	0.43 °C 0.34 °C 0.24 °C	
7.2.8	Type N			-200 °C 100 °C 1295 °C	0.96 °C 0.39 °C 0.39 °C	

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08	Pressure Gauge					
8.1	Hydraulic pressure	LCS/TM/04: Rev: 01	0 bar to 700 bar	Assume best existing device 0.01 bar	0.41 bar	LCS Premises only
8.2	Pneumatic Pressure	LCS/TM/04: Rev: 01	-0.95 bar to 40 bar	Assume best existing device 0.001 bar	24 mbar	
			0 bar to 200 bar	Assume best existing device 0.01 bar	0.12 bar	
09	Digital Tachometer	LCS/TM/06:Rev:00	900 rpm 1 200 rpm to 3 000 rpm 3 000 rpm to 6 000 rpm 6 000 rpm to 12 000 rpm 12 000 rpm to 84 000 rpm 90 000 96 000 102 000 108 000		1.3 rpm 60 ppm + 1.3 rpm 30 ppm + 1.3 rpm 80 ppm + 1 rpm 112 ppm + 0.5 rpm 11 rpm 12 rpm 13 rpm 13 rpm	LCS Premises only