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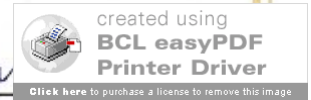
Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory	Kalashri Electronics Private Limited, Pune		
Accreditation Standard	ISO/IEC 17025:2005		
Field	Electro Technical Calibration	Issue Date	16.09.2008
Certificate Number	C - 0109	Valid Until	15.09.2010
Last Amended on	--	Page	1 of 4

Quantity Measured / Instrument	Range/Frequency	* Best Measurement Capability (\pm)	Remarks
AT-LAB			
MEASURE			
1. DC VOLTAGE	10 mV – 100 mV	0.02 %	Using 6½ DMM Fluke 8846 A
	1V – 10 V	0.01% – 0.02 %	
	10 V – 100 V	0.01% – 0.02 %	
	100 V – 1000 V	0.02% – 0.2 %	
2. DC HIGH VOLTAGE	1kV – 10k V	3.5%	Using HV Probe Fluke 80k - 40 with Fluke 189DMM
3. AC VOLTAGE	50 Hz		Using 6½ DMM Fluke 8846 A
	100 mV – 10V	.12 %	
	10V – 100 V	0.12 %	
	100 V – 750 V	0.14 %	
4. AC HIGH VOLTAGE	50 Hz		Using Probe Fluke 80k - 40 with Fluke 189DMM
	1kV – 5k V	4%	
5. DC CURRENT	100 mA – 1A	0.6% – 0.1 %	Using 6½ DMM Fluke 8846 A Using AC/DC Clamp meter Fluke 36
	1A – 10 A	0.1% – 0.2 %	
	10A – 900A	0.2% – 4 %	
6. AC CURRENT	50 Hz		Using 6½ DMM Fluke 8846 A Using AC/DC Clamp meter Fluke 36
	10 mA - 3 A	0.3% -1.5 %	
	20 A - 600 A	2 % -3%	

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7. DC RESISTANCE	10 Ω - 100 M Ω 100 M Ω - 2Gk Ω	0.05% - 1% 2%	Using 6 1/2 DMM Fluke 8846 A
8. INDUCTANCE	1 kHz 200 μ H - 100 mH	0.5%	Using LCR Meter Scientific 6018
9. CAPACITANCE	1 kHz 100 pF - 10 μ F	1% - 0.3 %	Using LCR Meter Scientific 6018
10. FREQUENCY	1 kHz - 1 GHz	0.12 %	Classic 9000 Counter
11. TIME	0.2 sec - 1hr.	0.007%	Classic 9000 Counter
<u>SOURCE</u>			
12. DC VOLTAGE	100 mV - 10V 10V - 1000 V	0.05% 0.1%	Using Process Calibrator Fluke 702 Nominal Source & 5 1/2 DMM Fluke 45
13. AC VOLTAGE	50Hz 10V - 750 kV	0.25%	Nominal Source & 5 1/2 DMM Fluke 45
14. DC CURRENT	4 mA - 20 mA 20 mA - 1 A 1 A - 10 A	0.03% 0.02% - 0.1% 0.1%	Process Calibrator Fluke 702 with Trans-Conductance amplifier & Fluke 8846 A DMM Nominal Source & Trans-Conductance amplifier & 5 1/2 DMM Fluke 45

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Quantity Measured / Instrument	Range/Frequency	* Best Measurement Capability (\pm)	Remarks
15. DC HIGH CURRENT	20 A - 900 A	3% - 4%	Nominal Source with clamp meter Fluke 36
16. AC CURRENT	50Hz 1A -10 A	0.6%	Nominal Source & Trans-Conductance amplifier & 5 ½ DMM Fluke 45
17. RESISTANCE	1 Ω - 1 k Ω	0.06% - 0.02%	Using Process Calibrator Fluke 702
	1 k Ω - 100 k Ω	0.2%	Using Fluke 95 DMM
	1 M Ω	2%	Standard Resistances
	10 M Ω	2%	
	100 M Ω	2%	
18. INDUCTANCE	1 kHz 10 μ H - 100 mH	0.2%	Using Inductance Decade Box
19. CAPACITANCE	1 kHz 100 pF - 100 nF	2%	Using Pacific Decade Box
20. FREQUENCY	1 Hz -50 kHz	0.01 %	Using Process calibrator Fluke 702, Signal generator SG503 HP 8654A
	50 kHz -540 MHz	0.2 %	
21. TIME	0.2 s - 1 yr.	0.2%	Time mark generator

Mhavi



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Quantity Measured / Instrument	Range/Frequency	* Best Measurement Capability (\pm)	Remarks
AT- SITE			
MEASURE			
22. DC VOLTAGE	1V – 1000V	0.5% - 0.2%	4 ½ DMM Fluke 189
23. DC HIGH VOLTAGE	1 kV – 30 kV	2.6% -4.9 %	HV Probe fluke 80k - 40 with Fluke 189 DMM
24. AC VOLTAGE	50Hz 1V – 750 kV	1% -0.4%	4 ½ DMM Fluke 189
25. AC HIGH VOLTAGE	50Hz 1 kV – 25 kV	6%	HV Probe Fluke 80k40 with 5 ½ DMM Fluke 45
26. DC CURRENT	10 mA – 6 A 20A – 900 A	0.6% 2.5%	4 ½ DMM Fluke 189 AC/DC Clamp meter
27. AC CURRENT	50Hz 10 mA – 6 A 20 A – 540 A	2% 2.4% - 4%	4 ½ DMM Fluke 189 AC/DC Clamp meter
28. RESISTANCE	1 Ω – 100 M Ω 100 M Ω - 2G Ω	0.05% - 1.4% 2%	4 ½ DMM Fluke 189 Insulation Tester
SOURCE			
29. RESISTANCE	1 Ω - 1k Ω 1k Ω - 100k Ω	0.2% 0.2%	Pecific DRB/Kalashri DRB using Fluke 189
	1M Ω 500 M Ω 1G Ω	2% 2% 2%	Std. Resistors (Cardinal values) & Insulation tester

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