

**Laboratory** Neetron Instruments, H-9/362 Vardhmaan Corporate Plaza, Netaji Subhash Palace, Delhi

**Accreditation Standard** ISO/IEC 17025:2005

**Discipline** Electro-Technical Calibration

**Issue Date** 24.04.2015

**Certificate Number** C-1205

**Valid Until** 23.04.2017

**Last Amended on** -

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MEASURE</u></b>			
1. DC VOLTAGE <sup>\$</sup>	1 mV to 100 mV	0.42 % to 0.01 %	Using 6 ½ DMM Fluke 8846 A by Direct Method
	0.1 V to 1 V	0.01 % to 0.008 %	
	1 V to 10 V	0.008 % to 0.006 %	
	10 V to 100 V	0.006 % to 0.59 %	
	100 V to 1000 V	0.59 % to 0.08 %	
2. DC CURRENT <sup>\$</sup>	0.1 mA to 1 mA	2.32 % to 0.28 %	Using 6 ½ DMM Fluke 8846 A by Direct Method
	1 mA to 10 mA	0.28 %	
	1 A to 9 A	0.6 % to 0.13 %	
3. AC VOLTAGE <sup>\$</sup>	<b>50 Hz</b>		Using 6 ½ DMM Fluke 8846 A by Direct Method
	10 V to 100 V	5.78 % to 0.62 %	
	100 V to 750 V	0.95 %	
4. AC CURRENT <sup>\$</sup>	<b>50 Hz</b>		Using 6 ½ DMM Fluke 8846 A by Direct Method
	1 A to 10 A	0.71 % to 0.58 %	
5. DC RESISTANCE <sup>\$</sup>	1 $\Omega$ to 100 $\Omega$	0.43 % to 0.06 %	Using 6 ½ DMM Fluke 8846 A by Direct Method
	0.1 k $\Omega$ to 1 k $\Omega$	0.05 %	
	1 k $\Omega$ to 10 k $\Omega$	0.04 %	
	10 k $\Omega$ to 100 k $\Omega$	0.02 %	
	100 k $\Omega$ to 1 M $\Omega$	0.05 %	
	1 M $\Omega$ to 10 M $\Omega$	0.14 %	
	10 M $\Omega$ to 80 M $\Omega$	0.14 % to 1.18 %	

Naveen Jangra  
Convenor

Avijit Das  
Program Manager

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**SOURCE**

1. TEMPERATURE SIMULATION # (TEMPERATURE INDICATOR, CONTROLLER, RECORDER, TEST KIT, UNIVERSAL CALIBRATOR) RTD PT 100	-200 °C to 550 °C	0.93 °C to 1.26 °C	Using Radix Calibrator & Metravi Calibrator by Direct Method
Thermocouples			
J-Type	0 °C to 550 °C	1.54 °C	
K- Type	0 °C to 1200 °C	1.89 °C	
R- Type	0 °C to 1700 °C	2.70 °C	
S- Type	0 °C to 1700 °C	2.67 °C	

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

\$Only in Permanent Laboratory

# 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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