

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 265
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Accreditation No: LAB 265

Awarded to

**Calibration Laboratory, InspecTest (Private) Limited,
Lahore, Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc. and shall not mislead its users.

The accreditation was first time granted on **08-06-2022** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **07-06-2025**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

08-06-2022
Date

SD
Director General

Calibration Laboratory.

**Calibration Laboratory, Inspectest (Private) Limited,
18 km Ferozpur Road, Lahore.**

Permanent laboratory premises

Field of Measurement: Electrical Metrology			
Scope of Accreditation (Generation Mode)			
Measured Quantity	Range	Expanded uncertainty (\pm)	Equipment Used
DC Voltage	0 – 1 m V	0.0035 mV	REFERENCE STANDARD (Source) Fluke 5520A Multi-product Calibrator UNIT UNDER TEST (Measured by) Fluke 8846 Multimeter
	1.0001 mV – 10 m V	0.0035 mV	
	10.0001 mV – 100 mV	0.0037 mV	
	0 V - 1 V	0.00024 V	
	1.00001 – 10 V	0.00037 V	
	10.0001 V to 100 V	0.0010 V	
	100.0001 V to 500 V	0.0012 V	
	500.0001 to 1000 V	0.0018 V	
AC Voltage	0 – 100 mV	0.90 mV	
	0 – 1 V	0.00017	
	1.00001 – 10 V	0.00059 V	
	10.0001 – 100 V	0.0060 V	
	100.0001 – 500 V	0.0093 V	
	500.001 – 1000 V	0.021 V	

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DC Current	0 A – 1 m A	0.00028 mA	
	1.0001 mA – 10 mA	0.00029 μ A	
	10.0001 – 100 mA	0.0010 mA	
	0 – 5 A	0.00046 A	
	5.00001 A – 10 A	0.00065 A	
AC Current (@ 50 Hz)	0 to 1 mA	0.017 mA	
	1.001 to 10 mA	0.018 mA	
	10.001 – 100 mA	0.021 mA	
	0 A – 5 A	0.00057 A	
	5.0001 A – 10 A	0.0010 A	
Resistance	0 ohm - 1 ohm	0.012 ohm	
	1.001 – 10 ohm	0.013 ohm	
	10.001 – 100 ohm	0.059 ohm	
	0 – 1 kilo ohm	0.0013 k ohm	
	1.0001 – 10 kilo ohm	0.0059 kilo ohm	
	10.001 – 100 kilo ohm	0.058 kilo ohm	
	0 – 1 Mega ohm	0.0013 Mega Ohm	
	1.0001 – 10 Mega ohm	0.0059 Mega ohm	
Scope of Accreditation (Measurement Mode)			
Measured Quantity	Range	Calibration and Measurement Capability (CMC) expressed as uncertainty (\pm)	Equipment Used
DC Voltage	0 – 1 mV	0.047 mV	Reference: Fluke 8846 Multimeter Unit Under Calibration: Fluke 5520 Calibrator
	1.001 – 10 mV	0.047 mV	
	10.001 – 100 mV	0.048 mV	
	0 – 1 V	0.00025 V	
	1.00001 V – 10 V	0.00084 V	
	10.0001 V – 100 V	0.0078 V	
	100.0001 V – 500 V	0.0078 V	

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	500.001 – 1000 V	0.077 V
AC Voltage	0 – 100 mV	0.045 mV
	0 – 1 V	0.00033 V
	1.0001 V – 10 V	0.0030 V
	10.001 – 100 V	0.010 V
	100.001 – 500 V	0.011 V
	500.001 – 1000 V	0.078 V
DC Current	0 – 1 mA	0.00082 mA
	1.00001 – 10 mA	0.00083 mA
	10.0001 – 100 mA	0.0044 mA
	0 – 1 A	0.00036 A
	1.00001 A – 5 A	0.00046 A
	5.0001 A – 10 A	0.0021 A
AC Current @ 50 Hz	0 – 1 mA	0.0011 mA
	1.0001 mA – 10 mA	0.0013 mA
	10.001 mA – 100 mA	0.018 mA
	0 – 1 A	0.00027 A
	1.0001 – 5 A	0.0038 A
	5.0001 A – 10 A	0.0063 A
Resistance	0 – 1 ohm	0.015 ohm
	1.001 – 10 ohm	0.015 ohm
	10.001 – 100 ohm	0.015 ohm
	0 – 1 k ohm	0.0012 k ohm
	1.0001 – 10 k ohm	0.0016 k ohm
	10.001 k ohm – 100 k ohm	0.010 k ohm
	0 – 1 Mega ohm	0.0012 Mega ohm
	1.0001 Mega ohm – 10 Mega ohm	0.0015 Mega Ohm

*** Expanded Uncertainty:**

- Expanded Uncertainty is the measurement uncertainty at a coverage probability of 95 %, which usually requires the use of a coverage factor of $k = 2$. This measurement uncertainty is a value for which the laboratory has been accredited using the procedure that was the subject of assessment. In certificates issued under its accreditation scope an accredited laboratory is not permitted to quote an uncertainty that is smaller than the published uncertainty for respective ranges as given above.

08-06-2022
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sd.
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