

Indiana Standards Laboratory

2919 SHELBY STREET
INDIANAPOLIS, INDIANA 46203-5236

REPORT of CALIBRATION

DATE : 03/22/12 TEST NUMBER : 114543
MANUFACTURER : AEMC Instruments MODEL NUMBER : 5100
NOMENCLATURE : Megohmmeter SERIAL NUMBER : A0370602
TOLERANCE : Manufacturer Specifications

MACHINE NUMBER : 02571
SUBMITTED BY : Horner Industrial Services Inc P.O. NUMBER : 36083
940 S. West Street
Indianapolis, IN 46225

PROCEDURE : Manufacturer TEMPERATURE : 23 °C
CAL INTERVAL : 12 Months HUMIDITY : 51 %RH
PREVIOUS TEST NO. : 106554 NEXT CAL DUE : 03/22/13
TECHNICIAN : JAD

RCV'D CONDITION : In-tolerance

RETURNED CONDITION : In-tolerance, no adjustments required.

COMMENTS :

CALIBRATION SOURCE(S) : 112850 109056 106336 89702 111646

UNCERTAINTY: Refer to data

The customer should consider the uncertainty of the measurement in determining compliance.

The reported uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Uncertainty is not taken into account in pass / fail function checks.

CERTIFICATION

After careful inspection of the above-described instrument, tests were performed in-laboratory to establish calibration accuracy. All equipment utilized in the testing is maintained by this laboratory and checked frequently against standards that have been certified traceable to SI Units through NIST or another ILAC recognized NMI.

It is hereby certified that the test instrument meets all the original manufacturer's performance specifications unless otherwise noted above. Test documentation is on file and may be viewed in our office. Testing was completed per ISL Quality Manual: Doc-001-Rev13 dated 11-15-10, and ISO/IEC 17025:2005, L-A-B Accredited Certificate Number L-2222.

Richard F. Chance

A handwritten signature in grey ink, appearing to read 'R. F. Chance'.

Chief, Metrology

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MODEL NUMBER : 5100

SERIAL NUMBER : A0370602

CALIBRATION SOURCES

Source	Manufacturer	Nomenclature	Model	Serial	Cal Due
89702	Indiana Standards Laboratory	Test Fixture, High Resistance	SF-52	005844	11/30/2012
106336	PPM, Inc.	Decade, Resistance	R3-1,110M	029571	4/30/2012
109056	Indiana Standards Laboratory	Decade, High Resistance	SF-51	001	8/31/2012
111646	General Radio Company	Decade, Resistance	1432-P	15521	11/30/2012
112850	Fluke Corp.	Calibrator, Multifunction	5100B	4855003	1/31/2013

CALIBRATION DATA

Function	Range	Scale	Indicated	As Found	Uncertainty
Insulation	500 MΩ	100	50.0	50.0	8.2E-02
	500	100	100	100	5.9E-01
	500	200	200	200	6.3E-01
	500	500	500	500	8.8E-01
	500	1000	1000	1000	1.6E+00
	500 GΩ	5	4.99	5.00	9.5E-03
	100	5	4.96	4.95	1.5E-02
	2500	5	4.86	4.75	1.7E-02
	500	10	10.0	10.0	7.0E-02
	1000	10	9.9	10.0	7.3E-02
	2500	10	9.7	9.9	7.8E-02
	5000	100	104	100	5.8E-01
Resistance	33 μA	100 kΩ	100	100	5.8E-01
	33	1000	1000	990	8.3E-01
	33	10	10.0	10.0	5.9E-02
Voltage	600 DC	n/a	100	100	5.8E-01
	600	n/a	600	604	5.8E-01
	600 @ 60 Hz	n/a	600	604	7.6E-01

*Out-of-tolerance

**Indeterminate

Ø = Fixed Zero

Note: Uncertainty is not taken into account in pass / fail function checks.

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