



A GREATER MEASURE OF CONFIDENCE

KEITHLEY INSTRUMENTS, INC. ■ 28775 AURORA RD, CLEVELAND, OHIO - USA ■ 440-248-0400 ■ Fax: 440-248-6168 ■ 1-888-KEITHLEY ■ www.keithley.com



CALIBRATION CERT #2462.01

Calibration Certificate

Manufacturer: Keithley Instruments, Inc.
Model Number: 2001-758D
Serial Number: 7764
ID Number: 7764

Calibration Date: 25-Aug-2011
Certificate Number: 7764:20110825102545
Procedure Number: QA-7141
Ambient Temperature: 23.2 °C
Relative Humidity: 40.7 %

Customer Information:

Keithley Instruments Inc Taiwan

Purchase Order Number:

As Received Conditions (As Found):

In Tolerance Repairs Needed
 Out of Tolerance NA

As Returned Conditions (As Left):

In Tolerance
 Subject to Restricted Use

- Keithley Metrology Services certifies that the above instrument meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national standards. This calibration complies with the requirements of ISO/IEC 17025:2005.
- The Keithley Instruments, Inc., quality system is registered to ISO 9001:2008.
- This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.
- The test results shown in this report apply to the calibrated item identified on page 1 of this certificate.
- This calibration certificate shall not be reproduced, except in full, without the written approval of the laboratory.
- The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.
- Test status is PASS unless indicated otherwise.
- Testpoints marked with a preceding "" are not accredited.
- No adjustments were made to the unit under test during this calibration event.

Calibration Standards Used:

<u>Manufacturer</u>	<u>Model Number</u>	<u>Control Number</u>	<u>Due Date</u>
Keithley	HRTS	7294	06-Nov-2011
Keithley	263	4908	30-Aug-2011
Keithley	2002	1145	05-Feb-2012
Keithley	642	9389	CNR
Keithley	5155-8	3667	29-Sep-2011
Hart Scientific	1560	9143	CNR
Hart Scientific	2563	9144	06-Apr-2012
Thermometrics	S-15	7876	14-Jan-2012

Technician: 5205

Approved By:

Helga A. Alexander

Helga A. Alexander
Metrology Services Manager

FM-7.6-073 Rev.J

Measurement Report

Calibration Date: 25-Aug-11
Manufacturer: Keithley Instruments
Model Number: 2001-758D
Serial Number: 7764
Asset/ID Number: 7764

Report Number: **7764:20110825102545**

Measured Value	Expanded Uncertainty (95% CL;k=2)
<u>9.239 780 0 E+08 Ω</u>	<u>87.0 $\mu\Omega/\Omega$</u>

Calibration Conditions:

The measured value is determined with approximately 1 volt developed across the unit under test (UUT) during the calibration process. The reported measured value has NOT been corrected for temperature or time drift.

End of Measurement Report

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