



**PRECISION  
MEASUREMENTS  
INC.**

## **CERTIFICATE OF CALIBRATION**

**Report No.** 1895978

### **CUSTOMER**

Old ABC, Company  
333 Moffett Park Drive  
Sunnyvale, CA  
94089

**Cal Date:** 11/29/2011

**Due Date:** 11/29/2012

**Cal Int:** 12 Mo.

### **INSTRUMENT/ID**

**Manufacturer:** Fluke

**Serial No:** 916704268

**Acct No:** 4532

**Model No:** 179

**Asset/ID No:** 4568

**PMC No:** 2011

**Description:** Multimeter, Digital

**Department:** Clean Room

**Code No:** 01

**Location:** Bldg. 2

### **CALIBRATION CONDITIONS**

**Received:** In Tolerance

**Cal Spec:** Manufacturer

**Temp:** 23 °C

**Returned:** In Tolerance

**Cal Procedure:** 179.pdf

**Humidity:** 49 %

**Cal'd At:** PMI Lab

### **CALIBRATION EQUIPMENT USED**

<b>Asset No.</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Calib. Date</b>	<b>Due Date</b>
2752	Fluke	5520A	09/09/11	09/09/12

### **REMARKS/COMMENTS**

See Attached Data Report

PRECISION MEASUREMENTS, INC. Quality System complies with ISO 9001:2008 and certifies that all calibration has been performed using standards traceable to the NATIONAL INSTITUTE of STANDARDS and TECHNOLOGY (NIST), or an acceptable value of a natural physical constant or ratio Calibration technique per MIL-STD-45662A, or current versions of ANSI-Z-540 , or ISO/IEC 17025 as applicable. Uncertainty of Standards has a 4:1 ratio or greater than the instrument under test or otherwise accounted for by analysis or quantitatively documented on this Certificate. This certificate applies only to the instrument identified above and shall not be reproduced, except in full, without specific written approval by PRECISION MEASUREMENTS, INC.

**TECHNICIAN:** Miller By Miller

**QC:** Shimeg

PM-COC-102A

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**DATA REPORT - PAGE 1**

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**DATA**

PARAMETERS TESTED	NOMINAL VALUE	ACCEPTABLE VALUE (TOL.)	INITIAL VALUE	FINAL VALUE
AC Voltage @ 45 Hz	300.0 mV	± 3.3 mV	299.9 mV	No Change
AC Voltage @ 500 Hz	5.000 V	± 0.053 V	4.994 V	No Change
AC Voltage @ 1 kHz	5.000 V	± 0.103 V	4.954 V	No Change
AC Voltage @ 45 Hz	50.00 V	± 0.53 V	49.95 V	No Change
AC Voltage @ 1 kHz	50.00 V	± 1.03 V	50.05 V	No Change
AC Voltage @ 45 Hz	300.0 V	± 3.3 V	299.8 V	No Change
AC Voltage @ 500 Hz	500.0 V	± 5.3 V	500.3 V	No Change
AC Voltage @ 1 kHz	500.0 V	± 10.3 V	500.3 V	No Change
AC Voltage @ 45 Hz	1000 V	± 13 V	997 V	No Change
AC				
Frequency @ 1.0 V	45.00 Hz	± 0.06 Hz	45.00 Hz	No Change
Frequency @ 5.0 V	50.00 kHz	± 0.06 kHz	50.00 kHz	No Change
DC Voltage	5.000 V	± 0.007 V	5.000 V	No Change
DC Voltage	300.0 V	± 0.5 V	300.0 V	No Change
DC Voltage	1000 V	± 3V	1000 V	No Change
DC Voltage	-1000 V	± 3V	-1000 V	No Change
DC				
Frequency @ 3.0 V	45.00 Hz	± 0.06 Hz	45.00 Hz	No Change
Frequency @ 30.0 V	50.00 kHz	± 0.06 kHz	50.00 kHz	No Change

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## DATA REPORT - PAGE 2

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PARAMETERS TESTED	NOMINAL VALUE	ACCEPTABLE VALUE (TOL.)	INITIAL VALUE	FINAL VALUE
DC mV	30.0 mV	± 0.2 mV	30.0 mV	No Change
DC mV	-300.0 mV	± 0.5 mV	-299.9 mV	No Change
DC mV	600.0 mV	± 0.7 mV	599.8 mV	No Change
Resistance	19.0	± 0.4	19.1	No Change
Resistance	19.00 M	± 0.32 M	19.00 M	No Change
Capacitance	900 nF	± 13 nF	900 nF	No Change
Continuity	25.0	Beeper ON	Beeper ON	No Change
Continuity	250.0	Beeper OFF	Beeper OFF	No Change
Diode Test	2.000 V	± 0.022 V	2.000 V	No Change
ACA @ 45 Hz	3.00 mA	± 0.08 mA	3.01 mA	No Change
ACA @ 1 kHz	50.00 mA	± 0.78 mA	49.96 mA	No Change
ACA @ 1 kHz	400.0 mA	± 6.3 mA	399.4 mA	No Change
ACA @ 45 Hz	4.000 A	± 0.063 A	4.001 A	No Change
ACA @ 1 kHz	9.00 A	± 0.17 A	9.00 A	No Change

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**DATA**

PARAMETERS TESTED	NOMINAL VALUE	ACCEPTABLE VALUE (TOL.)	INITIAL VALUE	FINAL VALUE
DCA	3.00 mA	± 0.06 mA	3.01 mA	No Change
DCA	50.00 mA	± 0.53 mA	49.99 mA	No Change
DCA	-400.0 mA	± 4.3 mA	-400.0 mA	No Change
DCA	4.000 A	± 0.043 A	4.000 A	No Change
DCA	-9.00 A	± 0.12 A	-8.99 A	No Change

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