

# Calibration Sources



**Model 5156 Electrometer Calibration Standard:** The 5156 calibration unit, when used with a voltage/current calibrator, allows you to calibrate the 6517A Electrometer/High Resistance Meter completely. The 5156 contains all the necessary characterized resistance and capacitance standards to calibrate the 20pA–2μA current ranges, and the 2nC–2μC charge ranges.

**For use with: 6517A Electrometer/High Resistance System**

## 5156 GENERAL SPECIFICATIONS

**DATA PORT:** For downloading of Model 5156 characterized data to 6517A Electrometer.

**MAX. INPUT VOLTAGE:** 200V peak.

**CONNECTORS:** One 3-lug triax for meter, six BNCs for calibrator connection.

**OPERATING ENVIRONMENT:** 23°C ±3°C, 30-60% R.H. non-condensing.

**DIMENSIONS:** 114mm high × 165mm wide × 184mm deep (4.5 in × 6.5 in. × 7.2 in).

**WEIGHT:** 1.7kg (3.8 lbs).

### ACCESSORIES SUPPLIED:

- Certificate of Calibration
- Charge Filter
- 7078-TRX-3 3-Lug Triax Cable
- 8501-1 Data Transfer Cable
- Operator's Manual

## CALIBRATION SOURCES SELECTOR GUIDE

Model	Name	Use With:
5156	Calibration Source	6517A Electrometer
5905	Calibration Sources	590 C-V Analyzer
5906	Calibration Sources	590 C-V Analyzer
5907	Calibration Sources	590 C-V Analyzer (cable and matrix)
5909	Model 82 Calibration Sources	Model 82-WIN
5955	Calibration Sources	595 Quasistatic CV Meter

## STANDARD SPECIFICATIONS FOR MODEL 5156

Nominal Value of Standard	Accuracy of Characterization (ppm)	Temperature Coefficient (ppm/°C)	Voltage Coefficient (ppm/Volt)	Nominal Tolerance ± %
100 MΩ	200	<25	<1	2
1 GΩ	300	<25	<1	2
10 GΩ	400	<25	<1	2
100 GΩ	500	<100	<1	2
1 nF	1000	<120	<5	5
10 nF	1000	<120	<5	5



**Model 5905:** Calibration sources for Model 590/1M. Includes 18pF, 180pF, 1.8nF, 4.7pF, 47pF, 470pF capacitance sources and 180μS, 1.8mS, 18mS conductance sources. Also includes CS-566 right angle male-to-female BNC connector, CS-567 female BNC shorting cap, and 5900-313 storage case.

**For use with: 590 C-V Analyzer**



**Model 5906:** Calibration sources for Models 590/1M, 590/100k, 590/100k/1M, and 5904. Includes 1.5pF, 18pF, 180pF, 1.8nF, 18nF, 0.5pF, 4.7pF, 47pF, 470pF, 4.7nF capacitance sources and 1.8μS, 18μS, 180μS, 1.8mS, 18mS conductance sources. Includes two storage cases.

**For use with: 590 C-V Analyzer**

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**Model 5907:** Calibration sources to calibrate cable and matrix. Includes 1.8nF and 470pF capacitance sources, 2 BNC female-to-female barrels (CS-565), and 5900-312 storage case.

**For use with:** 590 C-V Analyzer (cable and matrix)



**Model 5909:** Calibration sources for Model 82. Includes 1.8nF, 470pF, 180pF, and 47pF capacitance sources, two female-to-female barrels (CS-565), and storage case.

**For use with:** Model 82-WIN



**Model 5955:** Calibration sources for Model 595. Includes 18nF, 1.8nF, 180pF capacitance sources and storage case.

**For use with:** 595 Quasistatic C-V Meter

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