



Model 5156DR Electrometer Calibration Standard

Keithley 5156 Direct Replacement

Calibrate Picoammeters, Electrometers, Source & Femptoamp Meters

NIST Traceable

Custom Values Available

Description:

With the Keithley model 5156 being discontinued in 2004, there has been a continued interest in supporting a variety of high resistance - low current meters including models 6430, 6485, 6487, 6514, 6517A and many more. The demand for a direct, drop in replacement has steadily increased and has driven the development of the new model 5156DR.

The model 5156DR is smaller in size and offers improved specifications as a result of improvements in commercially available high resistance technology combined with additional research, unique design & development efforts and extensive testing.

The model 5156DR can be ordered directly online and is usually in stock. Each unit is delivered with a certificate of conformance and a NIST traceable certificate can be ordered separately.

Custom values and stand alone resistor standards are available upon request.

Accessories available: NIST traceable certificate, Charge Filter, 7078.TRX-3 3-Lug Triax Cable, 8501-l Dala Transfer Cable

Specifications:

Nominal Value	Characterization Accuracy - PPM	Temperature Coefficient PPM/°C	Voltage Coefficient PPM/Volt	Initial Tolerance ± Percent	Stability PPM/Year Maximum
100M	200	< 50	< 1	1	100
1G	300	< 50	< 1	1	100
10G	400	< 50	< 1	1	200
100G	500	< 50	< 1	1	300
1nF	1000	< 50	< 5	1	300
10nF	1000	< 50	< 5	1	300

^{*}Specifications subject to change without notice



General:

Data Port: For downloading of 5156DR characterized data to 6517 Electrometer

Maximum Input Voltage: 200 Volts Peak

Connectors: One 3.Lug Triax for meter, Six BNC's for Calibrator connection

Environment:

Operating: 23°C ±3°C, 30-60% RH non-condensing

Temperature Stabilization: 4 hours

Physical:

Maximum Overall Dimensions: Metric 153mm (H) x 121mm (W) x 76mm (D)

Imperial 6" (H) x 4.75" (W) x 3" (D)

Maximum Shipping Weight: Metric 2.75 kg

Imperial 1.25 lbs

Accessories:

5156DR/ACC - Accessory Kit (See Below) 5155DR/1T - $1T\Omega$ Standard Air Resistor 5155DR/10T - $10T\Omega$ Standard Air Resistor

Ordering Information:

Part/Model Number	Description		
5156DR	Electrometer Calibration Standard		
5156DR/CF	Charge Filter		
5156DR/LTC	3' Lug Triax Cable		
5156DR/DTC	3" Data Transfer Cable		
5156DR/DBA	BNC to Dual Banana Adapter		
5156DR/LLC	3' Low Loss BNC Cable		
5156DR/RBC	3' Red (Guard) Banana Cable		
5156DR/BBC	3' Black (Shield) Banana Cable		
5156DR/NIST	NIST Traceable Calibration Certificate		
5156/ACC	Accredited Calibration Certificate		
5156DR/Manual	Operators Manual		

Revision: 5156DR_100512