

# PBT-531

## Portable Shielded Bag Test Kit



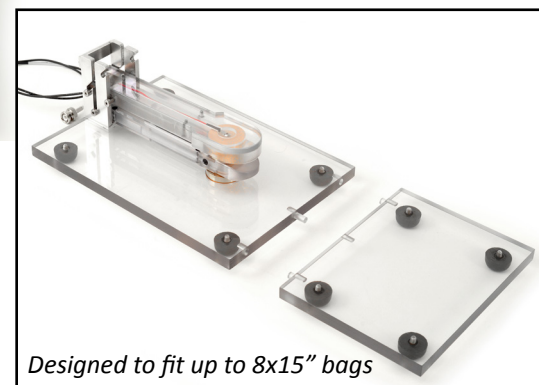
Electrostatic Shielding Bag Testing  
per ANSI/ESD STM11.31 and  
IEC 61340-4-8.



### PBT-531 Test Kit Includes:

- PDS-510 HBM Discharge Simulator
- PBF-520 Shielded Bag Fixture
- Tektronix® CT1 Current Probe
- PicoScope® Oscilloscope from Pico Technology®
- Bag Test Setting System File and System Verification
- Connection and Grounding Accessories
- Carrying Case

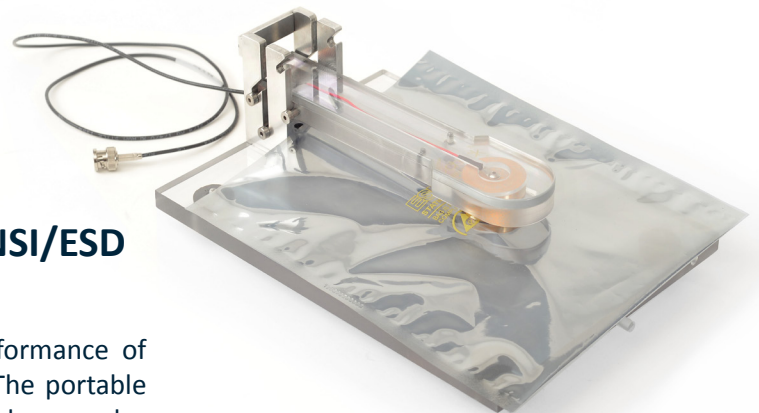
Note: Computer, Laptop or Tablet not included.



*Designed to fit up to 8x15" bags*

**Designed to determine the discharge shielding capabilities of electrostatic shielding bags per ANSI/ESD STM11.31 and IEC 61340-4-8.**

The PBT-531 is a complete system kit designed to evaluate the performance of electrostatic discharge shielding bags and other packaging materials. The portable shielding bag test system is capable of calculating the energy of the discharge pulse inside the shielding bag in accordance with ANSI/ESD STM11.31 and IEC 61340-4-8.



more info at:  
[www.prostatcorp.com](http://www.prostatcorp.com)

call: +1 630 238-8883  
Toll Free in USA: +1 855-STATIC1  
(782-8421)

# Technical Data

## Preliminary Specifications for the PBT-531 Shielded Bag Test Kit

PDS-510 HBM Discharge Simulator	
Discharge Output	Adjustable up to 4kV
Power Supply Output	Adjustable up to 4kV
Discharge Waveform ANSI/ESD STM11.31	Rise time @ 0Ω: <10 nsec @ 500Ω: <20 nsec Fall time @ 0Ω: 150±15 nsec @ 500Ω: 200±20 nsec Ringing: <15%
Power	<b>Batteries:</b> 4 each AA 2600 mAh low self-discharge, Rechargeable, Nickel-Metal Hydride Battery <b>Power Supply:</b> From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved.
Dimensions	7.5"L x 4.5"W x 2.5"H (19.05cm x 11.43cm x 6.35cm)
Weight	2.0 lbs (907g)
PBF-520 Shielded Bag Fixture	
Base Material	Flame Retardant Polycarbonate
Surface Resistivity	>1x10 <sup>13</sup> Ω
Discharge and Ground Electrodes	1.5" (3.8 cm) brass, gold plated nickel
Capacitive Probe	0.830" (2.1 cm) brass, gold plated nickel
Capacitance	8pF
High Voltage Resistor	500 Ohms, 1% tolerance
Support Area Surrounding the Ground Electrode	8x10" (20x25cm) - <i>without Base Extension attached</i> 8x15" (20x35cm) - <i>with Base Extension attached</i>
Dimensions	11"L x 8"W x 4"H - <i>without Base Extension</i> 6"L x 8"W x 1"H - <i>Base Extension</i>
Weight	3.0 lbs (48 oz) - <i>without Base Extension</i> 1.0 lbs (16 oz) - <i>Base Extension</i>
Tektronix® CT1 Current Probe - Includes Attenuator	
Bandwidth	1 GHz
Sensitivity (into 50Ω)	5mV/mA
Accuracy	±3%
Cable Length	40" (1 meter)
PicoScope® Oscilloscope	
Bandwidth	200 MHz
Sampling Rate	Up to 1 GS per seconds
PC Connectivity	USB 2.0 (USB 3.0 compatible). USB cable included.
Power Requirements	Powered from USB port
Software Included	PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit
Dimensions	5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)
Weight	< 0.2 kg (7 oz)

Preliminary specifications only. Data subject to change without notice.

PicoScope and Pico Technology are registered trademarks of Pico Technology Ltd. Tektronix is a registered trademark of Tektronix, Inc.



more info at:  
[www.prostatcorp.com](http://www.prostatcorp.com)

call: +1 630 238-8883  
Toll Free in USA: +1 855-STATIC1  
(782-8421)