



PDT-740B Static Decay Timer

The Prostat PDT-740B Static Decay Timer is designed to measure the time required for a 1,000 Volt charge to dissipate to less than 100, 50 or less than 10 Volts in *tenths* of a second. This extremely useful accessory is used with the Prostat PFM-711A Field Meter and CPM-720A Charge Plate Monitor to evaluate Ionizer Decay Time in accordance with ESD Association Ionization Standard ANSI/ESD STM3.1

The PDT-740B may be used to evaluate the static decay capabilities of materials, personnel, equipment and other products. It is compatible with most portable CPM's and field meters having an analog output (10,000 Volts equals 1 Volt). Completely automatic, the PDT-740B is simple to operate and easy to use.

Specifications

Controls:	OFF-ON Cut Off Voltage, 10, 50 and 100 Volts (Selects Voltage to stop timing)
Indicators:	Green LED: Decay Cycle Ready > ±1kV , CPM voltage > ±1,000 Volts Red LED: Timing in Progress , CPM voltage decay timing activated LOBAT displayed when battery voltage < 6.0 Volts
Display:	Liquid Crystal Display (LCD) displays elapsed decay time from ±1,000 Volts to selected Cut Off voltage in seconds and tenths of a second (00.0)
Polarity:	Automatically senses Positive & Negative voltage references
Zero & Reset:	Automatically Resets Timer and Display to 00.0 when CPM voltage > ±1kV. Reset indicated when Green LED Decay Cycle Ready LED is ON.

Response: Approximately 200 milliseconds in combination with CPM and PFM-711A

Timing Range: From 0.2 to 159.9 seconds

Timing Setpoints:

Reset when voltage input 100mv \pm 2 mv (1,000 Field Meter Volts \pm 20 V)
Cut Off Voltage @ 100 V: 10mv \pm 0.2 mv (100 Field Meter Volts \pm 2 V)
Cut Off Voltage @ 50 V: 5mv \pm 0.2 mv (50 Field Meter Volts \pm 2 V)
Cut Off Voltage @ 10 V: 1mv \pm 0.2 mv (10 Field Meter Volts \pm 2 V)

Accuracy: Typically < \pm 5%

Power: One (1) standard 9 Volts battery, PROCELL, Eveready #216 (NEDA 1604, JIS 006P, IEC 6F22) Eveready #216

Battery Life: > 40 hours typical

Dimensions (L x W x D): 4.50" x 2.75" x 1.0" (11.4 cm x 7 cm x 2.5 cm)

Weight: 6.5 oz (184g)

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Specifications subject to change without notice.
Printed in U.S.A. REV2: 6/20/07