



## PTS Series - DC High Voltage Test Set and Megohmmeter

0 - 80 kV DC hipot and Megohmmeter

The **PTS-80, PTS-80F** are combination high voltage DC proof tester and megohmmeter. Dielectric strength and insulation resistance testing are combined into one instrument saving time, money, size and weight. Equipped with a 5-range current meter scaled 0 - 1 dc microamps for accurate current measurement down to a 10 nanoamp resolution in the x1 range. Using the alternate scale on the current meter allows the PTS Series to double as a Megohmmeter up to 8 teraohms, scaled 100-1 megohms, insulation resistance can be taken at any voltage. An accurate 2 range voltmeter rounds out the standard instrumentation. Additional features include ruggedized anti-static and transit protected meters, rugged single piece design with foam padded handles, full-wave bridge rectifier, internal shorting solenoid with discharge resistors, and is CE marked. For other voltage options, please see the rest of our **PTS Series** which range from 15kV to 600kV DC. See our **DBT Series** for bench-top options.

- 20 foot (6 meter) shielded output cable, ground and return leads
- 5 range current/megohm meter for accurate leakage current
- Megohm readings at any output voltage up to 8 teraohms
- Full-wave bridge rectifier
- Internal HV Shorting Solenoid with discharge resistors
- Automatic transit protected meters with Anti-static glass face
- Under lid storage for all accessories
- External safety and zero start interlocks

| Model                        | PTS-80                                                                                                                                         |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                        | PTS-80 – 120Vac, 60Hz, 10A,<br>PTS-80F – 230Vac, 50/60Hz, 5A                                                                                   |
| Output                       | 0 – 15 kV DC @ 10 mA, negative polarity, positive ground<br>Full Wave Bridge Rectification                                                     |
| Duty                         | Continuous, capacitive charging                                                                                                                |
| Voltmeter                    | 3.5", scaled 0 – 40/80 kV DC, $\pm 2\%$ F.S.                                                                                                   |
| Current Meter                | 3.5", scaled 0 – 1.0 $\mu$ Adc, $\pm 2\%$ F.S. with multipliers of x 1, x 10,<br>x 100, x 1 k, x 10 k. Guard/ground load return                |
| Megohmmeter                  | Scaled 100 -1 M $\Omega$ $\pm 2\%$ F.S. with multipliers of x 0.1, x 1, x 10,<br>x 100, x 1 k                                                  |
| Size & Weight<br>(W x D x H) | 14 x 11 x 18 in., 65 lb.<br>356 x 279 x 457 mm, 29 kg                                                                                          |
| Output Termination           | 20 ft. (6 m) shielded output cable with alligator clamp                                                                                        |
| Scope of Supply              | 20ft red test lead, 20ft black test leads, 10in safety ground<br>stick, external interlock plug, operations manual, calibration<br>certificate |

### Optional Accessories

#### Hand & Foot Safety Switches



PN 90-410

PN 90-405

#### Safety Ground Sticks



PN 88-150

PN 88-113 \* included

#### Reuseable Shipping Case



PN 32-039

#### Optional Upgrades

3.5 Digit Digital Meters  
- Add Suffix "D"

## PTS-80 PTS-80F

0 - 15 kV DC, 10 mA

