

# Surge Testers

## MegaPulse 968-B Telephone Type B



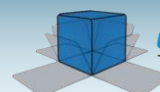
### TIA-968-B Telephone Type B

Surge tester built to deliver the pulse described in TIA-968-B, Section 4.1.3, Telephone line surge – Type B. The tester has a voltage waveform in accordance with TIA-968-B Figure 2, with a front time (tf) of  $9\mu\text{s} \pm 2.7\mu\text{s}$ , and a decay time (td) of  $720\mu\text{s} \pm 144\mu\text{s}$ , when delivered into an open circuit. The current waveform is in accordance with TIA-968-B Figure 3, with a front time (tf) of  $5\mu\text{s} \pm 1.5\mu\text{s}$ , and a decay time (td) of  $320\mu\text{s} \pm 64\mu\text{s}$  into a short circuit. The peak voltage can be set to 1500V minimum to 1650V maximum using the knob on the front panel, and it presents a peak short circuit current of 37.5A minimum to 41.3A maximum.

The voltage surges require polarity change and this is accomplished by pressing a front panel switch.

### Features

- Up to 1650V test peak voltage.
- Front panel voltage meter indicates output peak voltage.
- Output voltage and polarity are controlled manually from the front panel.
- Ergonomically designed for safety, speed and efficiency.
- Cables, manual and calibration certificate included.
- External Safety Interlock disables HV charge and defeats test when circuit is open.
- Optional USB Testminder, computer control allows test plans and stores results.
- One year calibration cycle.
- One year warranty.



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## Specifications

### Voltage waveshape reference TIA-968-B Fig. 2 (open circuit)

Output Peak voltage at 1500V:	1500V minimum to 1650V maximum
Voltage Rise Time:	9 $\mu$ s $\pm$ 2.7 $\mu$ s
Voltage Duration Time:	720 $\mu$ s $\pm$ 144 $\mu$ s
Voltage Control:	Knob or optional USB computer control

### Current waveshape reference TIA-968-B Fig. 3 (short circuit)

Output Peak current at 1500V:	37.5A minimum to 41.3A maximum
Current Rise Time:	5 $\mu$ s $\pm$ 1.5 $\mu$ s
Current Duration Time:	320 $\mu$ s $\pm$ 64 $\mu$ s
Internal Virtual Impedance:	40 $\Omega$
Voltage Display:	4 digit LED display
Voltage Meter Accuracy:	1% of reading $\pm$ 10V
Duty Cycle:	60 Seconds
Line Voltage:	120V AC, 50/60Hz *optional different line voltage



## Environmental

Operating Temperature:	15-40 °C
Relative Humidity Range:	0-90% non-condensing



## General

Dimensions:	17" wide x 3U high x 17" in deep
Weight:	30 lbs approx.
Product Package:	<ul style="list-style-type: none"><li>• Megapulse tester</li><li>• Megapulse product manual</li><li>• One High Voltage Test Lead (Black), 3 feet</li><li>• Two High Voltage Test Lead (Red), 3 feet</li><li>• NIST traceable calibration certificate to ANSI Z540</li><li>• Calibration waveforms</li></ul>



## Options

TMM:	Testminder USB computer interface software. The tester can be controlled with a computer. It can also be set to automatically follow test sequences varying test voltage and time between tests and keep a record with test information. Compatible with Windows 32/64 bit platform.
220, 230 or 240:	If a different line voltage is desired, with this option we install a step down transformer to be compatible with your line voltage. 220 is for 220V, 230 for 230V and 240 for 240V.

