



MegaPulse

Defib Surge P

PN:00-MPDefib Surge P

❖ EN45502-1 sec. 20 – Protection from external defibrillators test 1.



A Compliance West Surge Tester, outputs the waveform is supposed to, time after time.

The Defib Surge P outputs the pulse shown in EN45502-1 section 20, test 1 “Damped sinus defibrillation waveform” with a source impedance less than 10Ω and the $300\Omega \pm \Omega$ supplied within the enclosure.

*Actual products may vary depending on options and configuration.

➤ Features

- Up to 140V test Voltage.
- Microcontroller technologies.
- The front panel meter indicates test peak voltage at open circuit and polarity.
- Polarity button selector on the front panel.
- Manually operated Output Voltage knob.
- External interlock disables HV output and defeats test when circuit is open.
- Optional USB TestMinder, computer control with Auto-trigger via USB.
- Front panel switches and instructions for various test setups.
- Leads, manual and calibration certificate included.
- One year calibration cycle
- One year warranty.



➤ Specifications

TESTING CIRCUITRY

Max Output Voltage:	140V tolerance -0V, +7V.
Rise Time (Tp):	$1.5\text{mS} \leq T_p \leq 2.5\text{mS}$.
Duration (Tw50):	$3\text{mS} \leq T_{w50} \leq 5.5\text{mS}$.
Source Impedance:	<10Ω.
Output Impedance:	300Ω ±15Ω, additional 25Ω port to measure Vtest.
Voltage Control:	Manually, by turning a knob in the front panel.
Polarity Control:	Positive and Negative. Optional control via USB TestMinder.
Voltage Display:	4 Digit LED Display.
Voltage Meter Accuracy:	±2V.
Duty Cycle:	1 pulse every 20 seconds.

ELECTRICAL

Line Voltage:	120V AC, 50/60Hz. Optional 220, 230 and 240V.
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SAFETY

Safety Interlock	Optional 2-pin terminal block on rear panel; shorted for operation.
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OUTPUTS - FRONT

300Ω, 25Ω:	High Voltage insulated rigid 4mm socket – Red.
RETURN:	High Voltage insulated rigid 4mm socket – Black.

OUTPUTS - REAR

TESTMINDER:	DB9 Female (optional).
Inlet Module:	Inlet module with fuse and power switch combination.

➤ Environmental

Operating Temperature:	15-28 °C.
Relative Humidity Range:	0-90% non-condensing.

➤ General

Dimensions:	11.25" wide x 4.75" high x 13" deep.
Weight:	12 lbs. approx.
Product Package:	<ul style="list-style-type: none"> • Megapulse Defib Surge P Tester. • Megapulse Defib Surge P User Manual. • High Voltage Test Leads, 2 reds and 1 black. • NIST traceable calibration certificate to ANSI Z540 • Calibration waveforms report.



➤ Options

00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-XI	External Safety Interlock
00-TMM	TestMinder USB Control for P series.
A2LA-TECH-MP	ISO17025 Calibration

➤ Images



Rev 3.0

