



MegaPulse

Implantable Test 2

PN:00-MPIMP2

❖ EN45502-2-2, EN45502-1, ISO14117-1, and ISO14708-1 tester.



The MegaPulse Implantable Test 2 outputs the truncated exponential, monophasic and biphasic, pulse shown in Test 2 of EN45502-2-2, EN45502-1, ISO14117-1 and ISO14708-1.

Front panel switch chooses the mono- or biphasic output. All resistor networks are supplied. In accordance with the standard, the MegaPulse Implantable Test 2 can recharge and trigger the next pulse within 20 seconds.

*Actual products may vary depending on options and configuration.

➤ Features

- Biphasic and Monophasic, 140V and 270V peak test voltages in accordance with standard requirements.
- The front panel meter indicates test peak open circuit voltage and polarity.
- Polarity button selector on the front panel.
- External interlock disables HV output and defeats test when circuit is open.
- Microcontroller technologies.
- Optional USB TestMinder computer control with auto-trigger via USB.
- Leads, manual and calibration certificate included.
- One year calibration cycle.
- One year warranty.



➤ Specifications

TESTING CIRCUITRY

Truncated Exponential Peak Voltage (V_{test}): 140/270V +5%, -0%

	Monophasic (See figure 1)	Biphasic (See figure 2)
Pulse Duration:	9.5ms < T_d < 10.5ms	9.5ms < T_d < 10.5ms
Rise Time:	1 μ s < t_r < 5 μ s	1 μ s < t_r < 5 μ s
Fall Time:	1 μ s < t_f < 5 μ s	1 μ s < t_f < 5 μ s
Commutation Time:	Not Applicable	$t_c \leq 2$ ms

Voltage Control:	Manually, by turning a knob in the front panel or via USB.
Polarity Control:	Positive and Negative. Alternating control available with USB.
Voltage Display:	4 Digit LED Display.
Voltage Meter Accuracy:	± 3 V.
Duty Cycle:	20s between pulses.

ELECTRICAL

Line Voltage: 120V AC, 50/60Hz. Other Voltage Available.

SAFETY

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

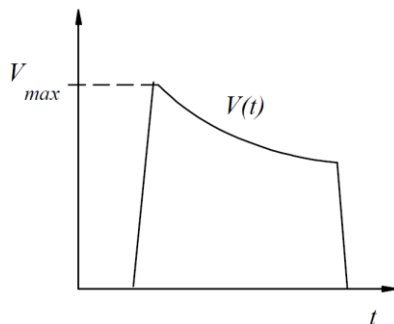


Figure 1. Monophasic Waveform

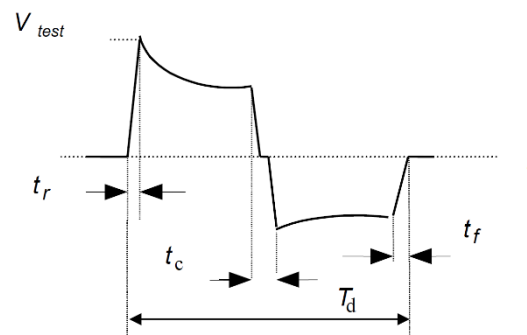


Figure 2. Biphasic Waveform

➤ Environmental

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



➤ General

Dimensions:	17" wide x 3U high x 17" deep.
Weight:	20 lbs. approx.
Product Package:	<ul style="list-style-type: none">• Megapulse Implantable Test 2 Tester.• Megapulse Implantable Test 2 User Manual.• High Voltage Test Leads.• NIST traceable calibration certificate to ANSI Z540.• Calibration waveforms

➤ Options

00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-TMM	TestMinder Computer Control via USB for MegaPulse P series.
00-CASE-6U:	Pelican Case with foam for 3U and 6U units.
A2LA-TECH-MP	ISO17025 Calibration

