



MegaPulse

Implantable Test 1

PN:00-MPIMP1

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



The MegaPulse Implantable Test 1 outputs the damped sinus pulse described in Test 1 of EN45502-2-2, EN45502-1, ISO14117-1 and ISO14708-1; with a T_p of 1.5 – 2.5ms; and a T_{w50} of 3 - 5.5ms when discharged into the resistor network, all resistor networks are supplied. In accordance with the standard, the MegaPulse Implantable Test 1 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 380 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

Output Voltage (Vtest):	140/380V +5%, -0%
Pulse Duration:	$3\text{ms} \leq T_{w50} \leq 5.5\text{ms}$
Rise Time:	$1.5\text{ms} \leq t_p \leq 2.5\text{ms}$

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:	$\pm 4\text{V}$.
Duty Cycle:	20s between pulses (see figure 2).

ELECTRICAL

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

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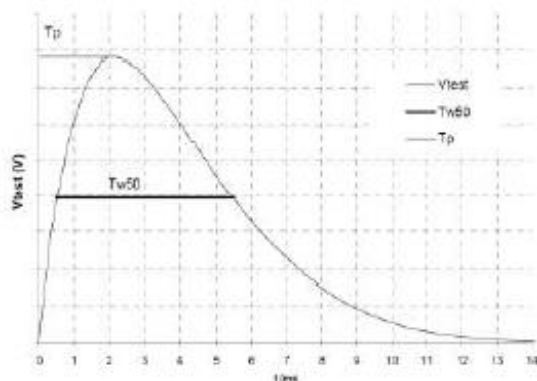


Figure 1. Damped sinus waveform

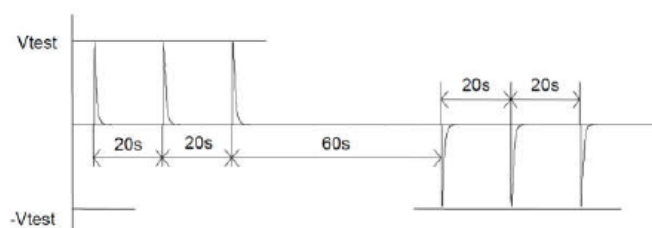


Figure 2. Testing timing sequence.

➤ 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 1 Tester.• Megapulse Implantable Test 1 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-RIMP-5V	Relay Isolated Remote Interface for MegaPulse, 5V Input
00-RIMP-12V	Relay Isolated Remote Interface for MegaPulse, 12V Input
00-RIMP-24V	Relay Isolated Remote Interface for MegaPulse, 24V Input
00-CASE-6U:	Pelican Case with foam for 3U and 6U units.
A2LA-TECH-MP	ISO17025 Calibration

