



# MegaPulse

## 10x1000s-2-2P

PN:00-00-MP10x1000s-2-2P

- ❖ GR-1089 Surge Tester with 10x1000s Waveform and 10Ω output impedance, 400-2kV.



\*Actual products may vary depending on options and configuration.

Surge Tester with a 10x1000s that complies with GR-1089. A 10uS Rise time and 1000uS Duration time 2us Rise Time with up to 2kV output shapes the output waveform.

Dual channel output, 10Ω each, maximum current output at 200A.

Digital Display, easy to operate.

### ➤ Features

- Waveform complies with GR-1089.
- Dual Channel, 10Ω each.
- Main shutdown switch on front panel for safety.
- External interlock disables HV output and defeats test when circuit is open.
- Microcontroller technologies.
- Output Voltage and Polarity is controlled from the front panel.
- Safety Discharge resistor. When the tester is turned off, the main capacitor bleeds off through this resistor.
- Optional USB TestMinder, computer control with auto-trigger.
- Leads, manual and calibration certificate included.
- One year calibration cycle
- One year warranty.



## ➤ Specifications

### TESTING CIRCUITRY

Output Voltage:	400V-2kV, tolerance -0% +15%.
Output Current:	40-200A per channel, tolerance -0% +15%.
Output Impedance:	10Ω.
Rise Time (O.C. and S.C.):	10uS, (10-90%)1.25, tolerance (6uS-10uS).
Duration Time (O.C. and S.C.):	1000uS, time to half value, tolerance (1000uS-1500uS).

### CONTROL

Voltage Control:	Manually, by turning a knob on the front panel or via optional USB TestMinder.
Polarity Control:	Pos. and Neg. Alternating control on front panel or via optional USB TestMinder.
Safety Discharge:	20s approx. for 2kV.
Remote Control:	Optional wired remote control, 20ft long, controls, Trigger, Charge, and Polarity.

### DISPLAY

Voltage Display:	4 Digit LED Display.
Voltage Meter resolution:	5V.
Voltage Meter Accuracy:	400 to 999V ±10V, 1000 to 2kV ±20V.

### OPERATION

Duty Cycle:	60s between pulses at 2kV.
Time between pulses:	Adjustable via USB TestMinder software.

### ELECTRICAL

Line Voltage:	120V AC, 50/60Hz. Optional 100, 110, 220, 230 and 240V.
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### SAFETY

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

OUTPUT:	4mm High Voltage insulated socket, banana compatible.
RETURN:	4mm High Voltage insulated socket, banana compatible.

### OUTPUTS - REAR

TESTMINDER:	DB9 Female (Optional).
SAFETY INTERLOCK:	2-pin Terminal Block.
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:	22" wide x 26" deep x 27" high.
Weight:	60 lbs. approx.
Product Package:	<ul style="list-style-type: none"><li>• Megapulse 10x1000s-2-2P Tester.</li><li>• Megapulse 10x1000s-2-2P User Manual.</li><li>• High Voltage Test Leads Qty 1 (Red end), Qty 1 (Black end)</li><li>• NIST traceable calibration certificate to ANSI Z540</li><li>• Calibration waveforms</li></ul>

## ➤ Options

00-MP220, MP230, MP240:	220V, 230V or 240V mains tester operation available.
00-TMM-PF	TestMinder Computer Control.
00-RI	Relay Interface Control.
A2LA-TECH-MP	ISO17025 Calibration

