

# 50MHz Logic Probe & Pulser **TENMA™**



## Description

The Logic Pulser is a very effective tool for inspecting and repairing the logic circuits. It can be used directly to inject a signal into the logic circuits without removing the IC or breaking the circuits. The 100mA pulse output insures that the device under test will be pulsed, while the short 10µs duration of the output pulse makes sure that no damage will be done to the circuit under test. The logic Pulser output is changeable between 0.5 and 400Hz, making it suitable for use with either a logic probe or with an oscilloscope, also has an external sync input, which enables the user to synchronize the pulse output with an external signal, such as a computer clock circuit.

## Operation:

- Attach red alligator clip to positive side of DC, power supply of printed circuit board under test.
- Attach black alligator clip to negative side of DC, power supply of printed circuit board under test.
- Setting the repetition rate switch to 0.5pps or 400pps.

## Specifications:

Operating Temperature	: 0°C to 50°C, 80% Relative Humidity
Storage Temperature	: -20°C to 65°C, 75% Relative Humidity
Weight	: 1.76 Ounces (50g) approx.
Dimensions	: 8.2" (21cm) Long × 0.7" (1.8cm) Wide × 0.7" (1.8cm) Deep
Sync Input Impedance	: 1MΩ
Pulse Rate	: 0.5/400Hz
Pulse Width	: 10µS
Output Current	: 100mA sink/source
Square Wave Output Current	: 5mA sink/source
Power Supply Range	: 5 – 15V DC
Power Supply Protection	: 20V DC (30 seconds max.)
Sync Input Protection	: 120V DC (30 seconds max.)
Test Point Protection	: 35V DC (30 seconds max.)

## Electrical (At 23±5°C, 75% Relative Humidity Max.):

Max. Input Signal Frequency	: 50MHz
Input Impedance	: 120kΩ
Operating Supply Range	: 4V DC Min., 18V DC Max.
TTL : Logic "1" (Hi LED)	: >3 ±0.25V
Logic "0" (Lo LED)	: <0.75±0.25V
CMOS : Logic "1" (Hi LED)	: >60% Vcc±5%
Logic "0" (Lo LED)	: <15% Vcc±5%
Min. Detectable Pulse Width	: 10 Nanoseconds
Max. Signal input Protection	: ±70V AC/DC (for 15 seconds)
Power Supply Protection	: ±20V DC
Pulse Indicator Flash Time	: 500ms

## Part Number Table

Description	Part Number
Logic probe and pulser	72-500

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