

OPERATOR'S MANUAL

MODEL	GLP-1A	LOGIC PROBE (50MHz FREQUENCY DISPLAYABLE) & LOGIC PULSER
MODEL	GPG-2A	LOGIC PULSER

LOGIC PROBE (GLP-1A)

INTRODUCTION

The Logic Probe ideal for troubleshooting and analysis of logic circuits. It works as a level detector, a pulse detector and a pulse stretcher.

It features include: a. Circuit powered. b. LED indicators: HI (red LED), LO (green LED)
c. Logic HI; LO; PULSER

OPERATION

- Attach red alligator clip to positive side of d.c. power supply of printed circuit board under test.
- Attach black alligator clip to negative side of d.c. power supply of printed circuit board under test.
- LED Display Pattern:

INPUT SIGNAL	LED	
	HI	LO
Logic "1"	●	○
Logic "0"	○	●
Bad Level or Open Circuit	○	○
Square Wave < 200KHz	●	●
Square Wave > 200KHz	●	●
Narrow High Pulse	●	●
Narrow Low Pulse	●	●

- LED ON

O LED OFF

* Blinking LED, Intensity is proportional to the duty cycle of the signal observed.

Note: If model GLP-1A LO (green LED) lighted, when power supply voltage is 7-18 Vcc. This is normal condition and will not effect the logic probe features.

SPECIFICATIONS

GENERAL :

Operating Temperature	0°C to 50°C, 80% Relative Humidity.
Storage Temperature	-20°C to 65°C, 75% Relative Humidity.
Weight	GLP-1A 1.76 Ounces (50g) approx. GPG-2A 1.4 Ounces (40g) approx.
Dimensions	8.2 Inches (21cm) Long X. 0.7 Inches (1.8cm) Wide X. 0.7 Inches (1.8cm) Deep.

ELECTRICAL (At $23 \pm 5^{\circ}\text{C}$, 75% Relative Humidity Maximum):

Maximum Input Signal Frequency	50MHz
Input Impedance	120K Ω
Operating Supply Range	4V DC Minimum, 18V DC Maximum
TTL: Logic "1" (HI LED)	> 3.0V $\pm$ 0.25V
Logic "0" (LO LED)	< 0.75V $\pm$ 0.25V

CMOS: Logic "1" (HI LED)	>60% Vcc $\pm$ 5%
Logic "0" (LO LED)	<15% Vcc $\pm$ 5%
	<40% Vcc $\pm$ 5%
	For 7-18 Vcc
Minimum Detectable Pulse width	10 Nanoseconds
Maximum signal Input Protection	$\pm$ 70V AC/DC (15sec)
Power Supply Protection	$\pm$ 20V DC

When supply voltage is 7-18 Vcc Green LED may be light. This is normal condition.



LOGIC PULSER (GLP-1A,GPG-2A)

INTRODUCTION

The Logic Pulser is a very effective tool for inspecting and repairing the logic circuit. 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 10 μ S duration of the output pulse makes sure that no damage will be done to 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 d.c. power supply of printed circuit board under test.
- Attach black alligator clip to negative side of d.c. power supply of printed circuit board under test.
- Setting the repetition rate switch to 0.5pps or 400pps.

SPECIFICATIONS

Sync Input Impedance	1M Ω
Pulse Rate	0.5/400 Hz
Pulse Width	10 μ S
Output current	100mA sink/source
Square Wave Output Current	5mA sink/source
Power Supply Range	5 - 15 V DC
Power Supply Protection	20V DC (30second max.)
Sync Input Protection	120V DC (30second max.)
Test Point Protection	35V DC (30second max.)

ISO-9001 CERTIFIED MANUFACTURER



GOOD WILL INSTRUMENT CO., LTD.

NO. 95-11, PAO-CHUNG ROAD, HSIN-TIEN CITY,
TAIPEI HSIEN, TAIWAN, R. O. C.

Tel : (02)2917-9188 Fax : 886-2-2918-3190

URL : [http : //www.goodwill.com.tw](http://www.goodwill.com.tw)