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

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

INPUT SIGNAL	LED	
	HI	LO
Logic "1"	●	O
Logic "O"	O	●
Bad Level or Open Circuit	O	O
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±5°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 ± 0.25V
Logic "O" (LO LED) ..... <0.75V ± 0.25V

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

a. Attach red alligator clip to positive side of d.c. power supply of printed circuit board under test.
b. Attach black alligator clip to negative side of d.c. power supply of printed circuit board under test.
c. 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 µS
Output current ..... 100mA sink/source
Square Ware 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

GW INSTEK®

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