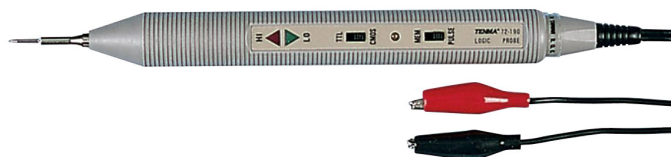


Logic Analyser Probe 20MHz Frequency



RoHS
Compliant



Introduction

The logic probe is ideal for trouble shooting and analysis of logic circuits. It works as a level detector, pulse detector, pulse stretcher, and a pulse memory.

Features

- Circuit Powered
- LED indicator: HI (red LED), LO (green LED) and PULES/MEMORY (Yellow LED)
- Switch-selectable pulse detection or pulse memory function
- Switch-selectable TTL or CMOS circuits

Specifications

Operating Temperature	: 0°C to +50°C, 80% Relative Humidity
Storage Temperature	: -20°C to +65°C, 75% Relative Humidity
Weight	: 1.6 Ounces (45g) approx.
Dimensions (Long×Wide×Deep)	: 8.2" (21cm) × 0.7" (1.8cm) × 0.7" (1.8cm)

Electrical (at 23±5°C, 75% Relative Humidity Maximum)

Max. Input Signal Frequency	: 20MHz
Input Impedance	: 1MΩ
Operating Supply Range	: 4V DC to 18V DC

TTL

Logic "1" (HI LED)	: >2.3 ±0.2V DC
Logic "0" (LO LED)	: <0.8 ±0.2V DC

CMOS

Logic "1" (HI LED)	: >70% Vcc ±10%
Logic "0" (LO LED)	: <30% Vcc ±10%
Min. Detectable Pulse Width	: 30 Nano seconds
Max. Signal Input Protection	: ±220V AC/DC (15 sec)
Power Supply Protection	: ±20V DC
Pulse Indicator Flash Time	: 500ms

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.



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- LED Display Pattern

Input Signal	LED		
	HI	LO	PULSE
Logic "1"	●	○	○
Logic "0"	○	●	○
Bad Level or Open Circuit	○	○	○
Square Wave <200kHz	●	●	*
Square Wave >200kHz	◐	◐	*
Narrow High Pulse	○	●	*
Narrow Low Pulse	●	○	*

● LED ON ○ LED OFF ◐ LED may or may not be on.

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

- After the PULSE/MEMORY switch is placed in MEM position, the pulse indicator (yellow LED) will latch on with the first transition (either rising or falling). Thereafter, as long as the probe is powered, the LED will remain on until reset by switching to PULSE position.

Part Number Table

Description	Part Number
Logic Analyser Probe, 20MHz, 4V DC to 18V DC	72-190

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