

# LOGIC PROBE

## MODEL LP-560

- TESTS ALL LOGIC FAMILIES (TTL, LSI, CMOS, ECT)
- CAPTURES PULSES TO 25ns (20MHz)
- AUDIO BEEPER, TWO SOUNDS HI & LOW
- MEMORY FUNCTION

### SPECIFICATIONS

|                                |                 |
|--------------------------------|-----------------|
| Working Voltage                | 4-18VDC         |
| Frequency Response             | 20MHz           |
| TTL: Logic "1" (HI LED)        | >2.3 ±0.2VDC    |
| Logic "0" (LO LED)             | <0.8 ±0.2VDC    |
| CMOS: Logic "1" (HI LED)       | >70% Vcc ±10%   |
| Logic "0" (LO LED)             | <30% Vcc ±10%   |
| Minimum Detectable Pulse Width | 25ns            |
| Input Impedance                | 1MΩ             |
| Input Overload Protection      | ±220VAC/DC, 15s |
| Supply Voltage Protection      | ±20VDC          |
| Pulse Indicator Flash Time     | 500ms           |
| Operating Temperature          | 32° - 122°F     |

### USER INSTRUCTIONS

1. Set the TTL/CMOS switch to the correct logic and the PULSE /MEM to PULSE.
2. Connect the red alligator clip to the positive (+) supply and the black alligator clip to the negative (-) supply of the test unit.
3. Touch the point to be tested with the probe tip and refer to the chart below:

| INPUT SIGNAL | LED STATES |    |       | SOUND    |  |
|--------------|------------|----|-------|----------|--|
|              | HIGH       | LO | PULSE |          |  |
|              | △          | ▽  | ○     |          | Logic tip is not connected or bad logic level. |
|              | △          | ▽  | ○     | Low      | Logic "0", no pulse activity.                  |
|              | ▲          | ▽  | ○     | High     | Logic "1", no pulse activity.                  |
|              | △          | ▽  | *     | Low      | Logic "0", with positive single pulses.        |
|              | ▲          | ▽  | *     | High     | Logic "1", with negative single pulses.        |
|              | ▲          | ▽  | *     | Low/High | Square wave <200kHz.                           |
|              | ▲          | ▽  | *     | Low/High | Square wave >200kHz.                           |

▲ - LED on △ - LED off \* - LED Blinking ▴ - LED may be on or off

### Memory Mode

1. Touch the point to be tested and set PULSE/MEM switch to MEM. The pulse LED lights with the first transition. The LED stays lit until its reset by switching to the PULSE position.



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