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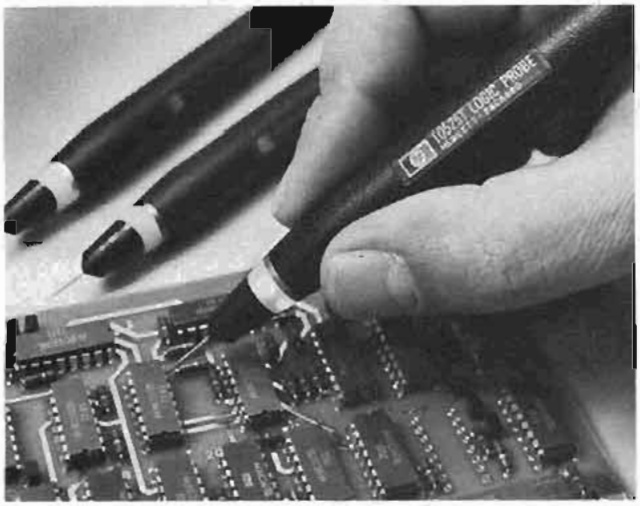
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# DIGITAL CIRCUIT TESTERS & ANALYZERS

## Logic probes

**Models 10525T, 10525H & 10525E**

- Dynamic indicator of logic activity
- Pulse stretching for narrow pulses
- Bad level/open circuit detection



### TTL/DTL logic probe

Using the HP 10525T Logic Probe greatly simplifies tracing logic levels and pulses through IC circuitry to find nodes stuck HIGH/LOW, intermittent pulses, and normal pulse activity. It instantly tells whether the node probed is high, low, a bad level, open circuited, or pulsing.

The Logic Probe requires but a simple connection to your circuit's 5-volt supply to be ready to go into action; the rigidly strain-relieved power cord and the line voltage protected probe tip insure durability and long life. High input impedance protects against loading your circuit—not just in the HIGH state but for logic LOW's as well.

The 10525T Probe has preset logic thresholds of 2.0 and 0.8 volts which correspond to the high and low states of conventional TTL and DTL circuits. When touched to a high level, a bright band of light appears around the entire probe tip; when touched to a low level, the light goes out. Open circuits or voltages in the bad level region between the preset thresholds cause lamp illumination at half brilliance. Single pulses of 10 ns or greater are easily viewed by stretching to one-twentieth of a second. The lamp flashes on or blinks off depending upon the pulse's polarity. Pulse streams to 50 MHz cause the lamp to blink off and on at a 10 Hz rate. A single lamp at your fingertips provides all this information. Thus, there is never any need for rotating the Probe to see what's happening, no matter where you are probing.

Since most IC failures show up as a node stuck either HIGH or LOW, the Logic Probe provides an inexpensive yet remarkably easy way of detecting the fault. And, with a Logic Probe, those single-shot, short pulses that are nearly impossible to see with even the fastest of scopes are readily displayed at your fingertips.

Also, combining the Probe with the 10526T Logic Pulser greatly enhances the ease of troubleshooting. The Pulser provides a convenient means of injecting single pulses whose effects are monitored with the Probe.

With its high input impedance, Model 10525T also functions quite well with logic families other than TTL and DTL, such as 5-volt CMOS, as long as the logic levels are TTL compatible.

### 10525T Specifications

**Input impedance:** >25 kΩ in both the high and low state (<1 low power TTL load).
**Logic one threshold:** 2.0 V ±0.2 V.
**Logic zero threshold:** 0.8 V +0.2 V, −0.4 V.
**Input minimum pulse width:** 10 ns.
**Input maximum pulse repetition frequency:** >50 MHz.
**Input overload protection:** ±70 volts continuous, ±200 volts intermittent, 120 V ac for 30 seconds, 240 V ac for 10 seconds.
**Power requirements:** 5 V ±10% at 60 mA, internal overload protection for voltages from +7 to −15 volts. Includes power lead reversal protection.
**Temperature:** 0° to 55° C.
**Accessories included:** BNC to alligator clips, ground clip.

### High level logic probe

The Model 10525H brings fingertip convenience to the testing of high level digital circuits such as HTL, HiNIL, MOS, discrete circuits, and relay logic. Operation is entirely analagous to that of the 10525T Probe except that the "H" model responds to higher input voltage levels and accepts a power supply anywhere in the 12 to 25 V range. Electrical Characteristics have been optimized to match the attributes of the tested devices.

### 10525H Specifications

**Input impedance:** >20 kΩ.
**Logic one threshold:** 9.5 V ±1 V.
**Logic zero threshold:** 2.5 V ±1 V.
**Input minimum pulse width:** 100 ns.
**Input maximum pulse repetition frequency:** >5 MHz.
**Input overload protection:** ±70 V continuous, ±200 V intermittent, 120 Vac for 30 seconds, 240 Vac for 10 seconds.
**Power requirements:** +12 to +25 V at 100 mA. Includes power lead reversal protection.
**Temperature:** 0° to 55°C.
**Accessories included:** BNC to alligator clips, ground clip.

### ECL logic probe

The HP Model 10525E Logic Probe extends the time-proven, cost-saving logic probe troubleshooting technique to high-speed ECL logic.

Operation of the ECL probe is analagous to that of the 10525T except the 10525E's high speed circuitry stretches single shot phenomena so that single pulses as narrow as 5 nanoseconds may be observed.

The 10525E may be powered directly from any −5.2 volt source and its high input impedance minimizes circuit loading.

### 10525E Specifications

**Input impedance:** 12 kΩ in both the high *and* low state.
**Logic one threshold:** −1.1 V ±0.1 V.
**Logic zero threshold:** −1.5 V ±0.1 V.
**Input minimum pulse width:** 5 nsec.
**Input maximum pulse repetition frequency:** 50 MHz (typically 100 MHz at 50% duty cycle.)
**Input overload protection:** ±70 volts continuous, 200 volts intermittent, 120 Vac for 30 seconds.
**Power requirements:** −5.2 V ±10% at 80 mA; supply overload protection for voltages from −7 to +400 volts.
**Accessories included:** BNC to alligator clips, ground clip.

| Accessories available: | Price |
|---|---|
| 10525-60012: Tip Kit | $25 |
| **Model number and name** | |
| 10525T Logic Probe | $65 |
| 10525H Logic Probe | $125 |
| 10525E Logic Probe | $150 |

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