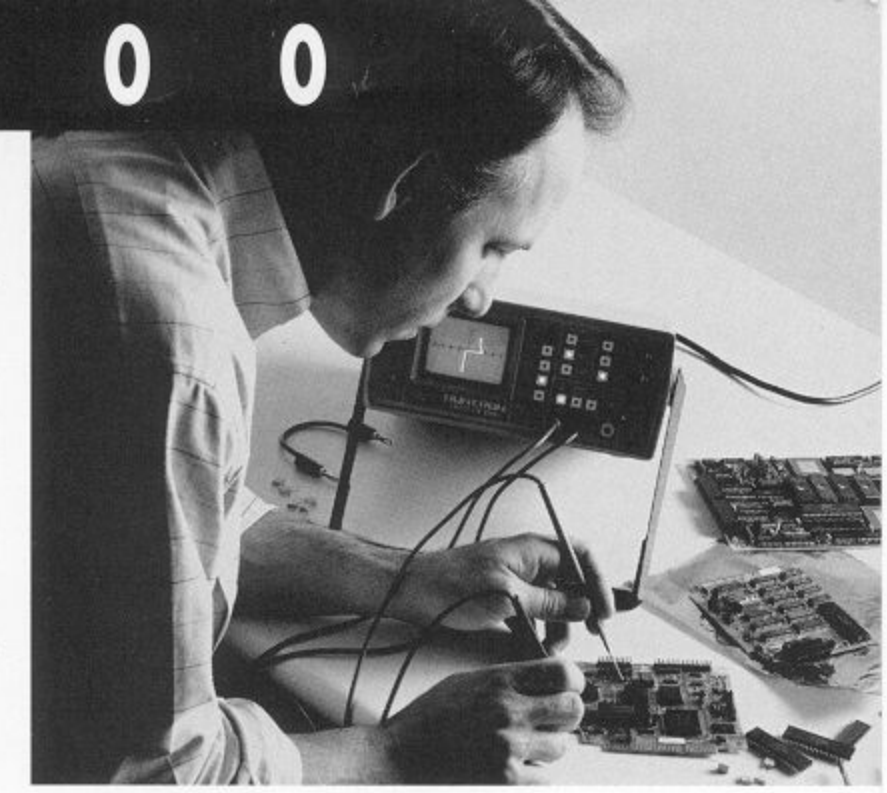
TRACKER 2000



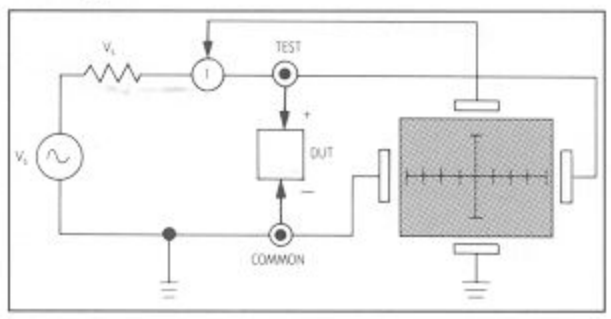
The advantages of Tracker® technology

The Huntron® Tracker 2000 provides advanced troubleshooting capabilities to simplify testing newer technology components such as CMOS and MOS circuits. Its built-in pulse generator lets you thoroughly troubleshoot gate-fired devices such as SCRs, TRIACs and optocouplers. By energizing the gate, you can test a component in an active mode.

You use a Tracker 2000 while the power to the circuitry you're testing is turned off. So you avoid an accidental short that could cause further damage. It allows you to analyze the overall health of a solid-state component, which makes it perfect for finding leakage or substrate damage that has brought a system or PCB down prematurely. Because it can compare suspect components to known-good equivalents, it's also ideal for troubleshooting when documentation is missing or incomplete.

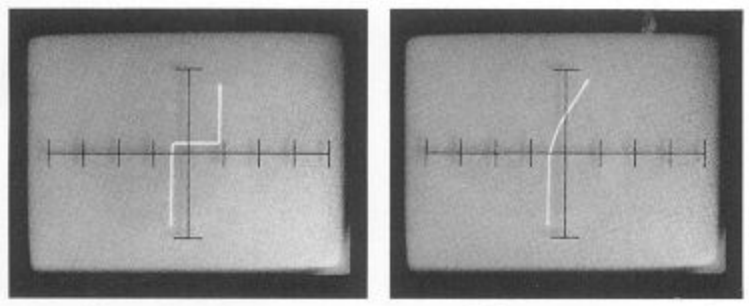
Analog signature analysis

The Tracker works by applying a current-limited AC signal across two points of a component. The current flow causes a vertical deflection of the CRT trace, while the voltage causes a horizontal deflection. Together, they give you a unique current-voltage "analog signature" that represents the overall health of the device you're testing. Analyzing each signature, you can quickly tell if a component is good, bad or marginal.



Real-world troubleshooting challenges

The Huntron Tracker 2000 is ideal for troubleshooting Programmable Logic Controls (PLCs). In troubleshooting multi-channel input modules, technicians frequently run into a damaged channel because the IC buffers, optocouplers and drivers have been over-stressed. By using the pulse generator built into the Tracker 2000, you can quickly troubleshoot optocouplers and other gate-fired devices. Simply compare signatures of one channel against another. You'll usually find problems where you see differences in signatures. Likewise, you can compare multi-channel *outputs* with the Tracker 2000. These devices usually fail when too much current is drawn through the logic section. To troubleshoot them, compare the signatures of ICs in one channel against those in another, looking for differences that indicate a problem.



Advanced pulse generator for testing gate-fired devices.

3 test frequencies.

4 impedance ranges, with auto or manual switching and high range lockout.

Easy-to-view CRT displays analog signatures that help you analyze whether a board or component is good, bad or somewhere in between.

Compar-A-Trace mode switches automatically between two inputs.

RANGES

Range	V_s (V_{pk})	Z_s (kΩ)	I_{sc} (mA_{rms})	P_{max} (mW)	P_{diode} (mW)
High	60	74	0.6	6	.2
Medium 2	20	27	0.6	2	.2
Medium 1	15	1.2	8.5	23	2
Low	10	54Ω	132	232	33

SPECIFICATIONS

Test Frequencies	50/60 Hz, 400 Hz, 2000 Hz
Functions Range Selection	 Auto or Manual High Range Lockout
Compar-A-Trace	Adjustable (0.5 Hz to 10 Hz)
Pulse Generator Level DC Mode Pulse Mode	 0V to 5V +DC or -DC +Pulse, -Pulse, or both; adjustable duty cycle
Line Voltage	100 VAC, 115 VAC or 230 VAC
Power	20 Watts maximum
Display	2.8 in (7.0 cm) diagonal CRT
Dimensions	11 in L x 9 in W x 4 in H (28 cm L x 23 cm W x 10 cm H)
Weight	6.5 lb (3.0 kg)
Operating Temp	+32° F to +122° F (0° C to +50° C)
Storage Temp	-58° F to +140° F (-50° C to +60° C)
Warranty	1 year, limited

Ordering Information

The Huntron Tracker 2000 comes complete with Huntron µProbes (1 pair), common test leads, two mini-clip leads, power cord and instruction manual. Contact Huntron for the name of your nearest authorized distributor. In the United States and Canada, call toll-free 1-800-426-9265. Monday through Thursday: 7:00 a.m. – 5:00 p.m., Friday: 7:00 a.m. – 11:00 a.m. (Pacific Coast Time). Outside the United States, use our FAX machine: 206-743-1360.