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HUNTRON

TRACKER 2000

General Purpose Troubleshooting



Test components and boards without power - ideal for catastrophic failures

Get a picture of a component's overall health - including intermittent problems

Test gate-fired devices with a built-in pulse generator

Non-destructive testing

The advantage 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.

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 overstressed. 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 multichannel 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.

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.

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Ranges

Ranges	V_S (V_{pk})	Z_S (kΩ)	I_{SC} (mArms)	P_{max} (mW)	P_{diode} (mW)
High	60	74	0.6	6	0.2
Medium 2	20	27	0.6	2	0.2
Medium 1	15	1.2	8.5	23	2
Low	10	54Ω	132	232	33

Specifications

Input Selection	A, B, Alternate (variable rate)
Test Frequencies	50/60 Hz, 400 Hz, 2000 Hz
Functions	
Range Selection	Manual or AutoScan High Range Lockout
Compare-A-Trace	Adjustable (0.5 Hz to 10 Hz)
Pulse Generator	
Level	0V to 5V
DC Mode	+DC or -DC
Pulse Mode	+Pulse, -Pulse, or both; adjusable duty cycle
Line Voltage	100 VAC, 115 VAC or 230 VAC 50 or 60 Hz
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

Distributed by:

Supplied Accessories:

The Huntron Tracker 2000 comes complete with:

- Huntron µProbes (1 pair)
- Common test leads
- Two mini-clip leads
- Power cord
- Instructional/maintenance manual

Optional Accessories:

The Tracker 2000's usefulness can be enhanced with the following accessories:

- DSI 700 - Digital Storage Interface
- Switcher 410 - Manual Switch Matrix
- ShorTrack 90 - Short Detector
- 2000 Tracker Self-Paced Training Course

Ordering Information:

Contact Huntron for the name of your nearest authorized distributor. In the United States and Canada, call toll-free 1-800-426-9265. Outside the United States, use our FAX machine: 425-743-1360.

You may contact Huntron via e-mail at huntron@huntron.com or via our WEB site at http://www.huntron.com

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