

TRACKER 2700S

Huntron's next generation troubleshooting tool with multi-pin scanning capabilities



Trusted technology, new applications

The Huntron® Tracker® 2700S extends the capabilities of power-off testing to troubleshoot low voltage logic circuitry. Its low voltage ranges also make it ideal for testing passive devices such as high value capacitors while still in-circuit. Source voltage, source resistance and test frequency are clearly defined on the front panel overlay. The Tracker 2700S can scan and compare up to 40 pins per channel using standard IC clips and cables. Comparison can take place manually or automatically allowing you to pick out the signatures differences quickly. A variable 5 volt DC Voltage Generator allows the user to switch gate-fired devices such as SCRs and optical couplers so they can be tested in on and off states. The Huntron Tracker 2700S is an ideal addition to the service engineer's bench. Using a power-off test method known as Tracker Signature Analysis, it eliminates the risk of further circuit damage, which often occurs when power is applied.

The Tracker 2700S also incorporates Huntron's SigAssist™ feature which displays real-time numeric information relating directly to the displayed signature. Information such as breakdown voltage, resistance, capacitance, and power are displayed on the LCD to assist in signature interpretation.

Troubleshooting challenges

Modern complex switching power supplies with fail-safe protection circuits contain many passive components that are difficult to test in circuit due to parallel solid state devices. The 200mV range of the Tracker 2700S allows resistors, capacitors and inductors to be analyzed without turning on the parallel solid state devices. The passive devices are essentially tested "out of circuit".

Today's electronic devices use 3 volt or lower logic circuits. The low test voltage ranges of the Tracker 2700S make it an ideal tool to troubleshoot these products. The Tracker 2700S has 21 selectable voltage/resistance ranges available in 5 frequencies resulting in a total 105 combinations of voltage, source resistance and test frequency.

Tracker 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 trace, while the applied voltage causes a horizontal deflection. Together they form a unique V/I signature that represents the overall health of the device under test. Analyzing the signature can quickly determine whether the component is good, bad, or marginal.

Ordering Information

The Huntron Tracker 2700S (part number 99-0375) comes complete with Huntron MP20 Microprobes (one pair), common test leads, 20 and 40 pin DIP clips and cables, one blue clip lead, power cord and instruction CDROM.

- *Color LCD for display of signatures and menus*
- *Uses Huntron's proven Tracker Signature Analysis technology*
- *Huntron SigAssist™ is incorporated into the display*
- *Speed up troubleshooting by scanning and comparing up to 40 pins per channel*
- *Perfect for benchtop or field repairs*

SPECIFICATIONS

Waveform	Sine wave
Test Frequencies	5 selections of frequency: 20Hz, 50Hz, 60Hz, 200Hz, 2000Hz
Open circuit Voltage (V_s):	6 selections of peak voltage: 200mV, 3V, 5V, 10V, 15V, 20V
Source Resistance (R_s):	5 selections of resistance: 10 Ω , 100 Ω , 1k Ω , 10k Ω , 100k Ω
Channels	
Number	2
Display modes	A, B, Alt
No. of scan pins/chan.	40
Scan modes	manual or automatic
DC Voltage Generator	
Level	0 to +5VDC
Source Resistance	25 Ω
Maximum Current	200mA
Display	
Color LCD	320x240 pixels
Power Requirements	
Line Voltage	115VAC/230VAC
Frequency	50/60Hz
Power	40 Watts
Dimensions	11.5in W x 4.5in H x 10.8in D (29cm W x 11.4cm H x 27.4cm D)
Weight	6lbs (2.8kg)
Operating Temp	32°F to +104°F (0°C to +40°C)
Storage Temp	-4°F to +140°F (-20°C to +60°C)
Warranty	1 year, limited
Safety approval	ETL listed

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