

TRACKER 2700

The next generation of Huntron troubleshooting tools



Trusted technology, new applications

The Huntron® Tracker 2700 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. 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 2700 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 2700 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 2700 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 2700 make it an ideal tool to troubleshoot these products. The Tracker 2700 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 2700 (part number 99-0369) comes complete with Huntron MP20 Microprobes (one pair), common test leads, 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*
- *Troubleshoot low voltage logic circuitry without the possibility of exceeding manufacturers voltage specifications*
- *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
DC Voltage Generator	
Level	0 to +5VDC
Source Resistance	25 Ω
Maximum Current	200mA
Display	
Color LCD	320x240 pixels
Power Requirements	
Line Voltage	115VAC or 230VAC
Frequency	47Hz to 63Hz
Power	25 Watts
Dimensions	9in W x 4in H x 11in D (23cm W x 10cm H x 28cm 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