

# HUNTRON

# TRACKER<sup>®</sup> 2500

Entry level Tracker for today's technology



## Trusted technology, new applications

The Huntron<sup>®</sup> Tracker 2500 extends the capabilities of the popular Tracker 2000 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 is clearly defined on the front panel overlay.

A variable dc voltage level from -5 volts to +5 volts allows the user to switch gate fired devices such as SCRs and optical couplers so that they can be tested in the open and closed states.

The Huntron Tracker 2500 is an ideal addition to the service engineer's bench. Using a power off test method known as Analog Signature Analysis, it eliminates the risk

of further circuit damage, which often occurs when power is applied.

## 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 2500 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 portable electronic devices use 3 volt or lower logic circuits. The low test voltage ranges of the Tracker 2500 make it an ideal tool to troubleshoot these products.

**Troubleshoot low voltage logic circuitry without the possibility of exceeding manufacturers voltage specifications**

**Uses Huntron's patented and field proven Analog Signature Analysis technology**

**Test passive devices without removing them from the circuit**

**Test gate-fired devices**

**Perfect for benchtop or field repairs**

The Tracker 2500 has 25 selectable voltage/resistance ranges available in 4 frequency groups resulting in a total 100 combinations of voltage, source resistance and test frequency.

## 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 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.

# SPECIFICATIONS

Waveform	Sine wave
Test Frequencies	20 Hz, 50/60 Hz, 200 Hz and 2k Hz
Open Circuit Voltage	200mV <sub>PK</sub> , 2V <sub>PK</sub> , 3V <sub>PK</sub> , 5V <sub>PK</sub> , 10V <sub>PK</sub> , 15V <sub>PK</sub>
Source Resistance	10Ω, 100Ω, 1kΩ, 10kΩ and 100kΩ
Functions	
Range Selection	Manual or Auto Scan
Channels	2 (A, B, Alternate)
Alternation Rate	0.5 Hz to 5 Hz (synchronized to sinewave zero-crossing)
Overload Protection	Automatic circuit breaker
DC Source	
Outputs	2 resistively coupled
Level	0 to 5 VDC
DC mode only	± DC outputs
Output impedance	100Ω (each output)
Short Circuit	
Current	50mA maximum (each output)
Line Voltage	115VAC or 230VAC
Frequency	47 Hz to 63 Hz
Power	20 Watts maximum
Line Protection	0.25 Amp type AGC fuse (operator replaceable)
Display	2.8 in (7.0 cm) diagonal monochrome 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	7.0 lb (3.0 kg)
Operating Temp	+32°F to +104°F (0°C to +40°C)
Storage Temp	-4°F to +140°F (-20°C to +60°C)
Relative Humidity	0 to 80% RH
Warranty	1 year, limited

## Distributed by:

Part Number: 31-0088

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All specifications subject to change without notice.

## Supplied Accessories:

The Huntron Tracker 2500 comes complete with:

- Huntron μProbes (1 pair)
- Common test leads
- Power cord
- user/maintenance manual

## Optional Accessories:

The Huntron Tracker 2500's usefulness can be enhanced with the following accessories:

- Switcher 410 - Manual Switch Matrix
- ShorTrack 90 - Short Detector

## 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](mailto:huntron@huntron.com) or via our WEB site at <http://www.huntron.com>

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