

- *State-of-the-art troubleshooting using variable ranges*
- *Dual trace CRT quickly compares component signatures*
- *Huntron's exclusive STAR feature prevents component damage by not allowing voltage-resistance combinations that exceed an IC's current specifications*

## TRACKER 4000

*The ultimate benchtop troubleshooting tool*



The Huntron Tracker 4000 provides state-of-the-art troubleshooting methodology using analog signature analysis techniques. The dual trace CRT display quickly compares known good component signatures with the device under test, thus detecting subtle problems such as IC leakage, intermittent faults, open capacitors etc. All this and more without the need to power up the circuit under test and perhaps cause further damage.

The Tracker 4000 can supply any combination of more than 6000 selections of voltage, source resistance and test frequency. Up to 20 customized test groups can be stored internally with four ranges per group, so the best possible range of test parameters may be determined to produce the optimum display of the device's signature. Huntron's exclusive STAR (Safe Tracker Active Range) feature prevents damaging a component by setting test parameters beyond its current limitations.

An integral pulse generator allows the testing of gate fired devices such as SCRs and TRIACs.

### ***Versatility of test***

The range of test parameters available makes the Tracker 4000 capable of troubleshooting a wide range of components. Passive devices, surface mount, low voltage logic, CMOS, TTL, and mixed-signal technology boards are all within the Tracker 4000's capability.

Testing a circuit with differing combinations of voltage, resistance and frequency allows the user to effectively isolate components, essentially eliminating any parallel influences. For example if a capacitor is tested at 200mV, any shunt semiconductors will remain turned off and the capacitor will be tested as if out of the circuit. Testing at a higher voltage and lower frequency will eliminate the effects of the capacitor and display the signature of the parallel device.

### **Ordering Information**

The Huntron Tracker 4000 comes complete with Huntron MP20 Microprobes (one pair), common test leads, two mini-clip leads, power cord and instruction manual.

## SPECIFICATIONS

Waveform	Sine wave
Test Frequencies	40 selections of frequency: 20Hz to 190Hz in 10Hz steps, 200Hz to 1.9kHz in 100Hz steps, 2kHz to 5kHz in 1kHz steps
Open circuit Voltage ( $V_s$ ):	24 selections of peak voltage: 200mV, 400mV, 600mV, 800mV, 1V to 20V in 1V steps, including 10V (Low), 15V (M1), 20V (M2)
Source Resistance ( $R_s$ ):	13 selections of resistance: 10 $\Omega$ , 20 $\Omega$ , 50 $\Omega$ , 100 $\Omega$ , 200 $\Omega$ , 500 $\Omega$ , 1k $\Omega$ , 2k $\Omega$ , 5k $\Omega$ , 10k $\Omega$ , 20k $\Omega$ , 50k $\Omega$ , 100k $\Omega$ , plus 54 $\Omega$ (Low), 1.2k $\Omega$ (M1), 26.7k $\Omega$ (M2)
Channels	2
Display modes	A, B, Alt, A+B
Protection	Electronic circuit breaker
Pulse Generator	Level 0 to $\pm 10V$ Width (Pulse mode) 2% to 50% duty cycle Source Resistance 100 $\Omega$ Maximum Current 100mA
Displays	CRT mono 2.8 in (7 cm) diag LCD graphic, 128 x 64 pixels
Power Requirements	Line Voltage 90VAC to 250VAC Frequency 47Hz to 63Hz Power 45 Watts
Dimensions	11.6in W x 4.5in H x 15in D (30cm W x 11.5cm H x 38cm D)
Weight	10lbs (4.5kg)
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