

ProTrack I Model 20



Introducing the Personal Troubleshooting Workstation®.

Troubleshooting complex boards without applying power is now more effective than ever. Presenting the Huntron® ProTrack® I troubleshooting system. It's the heart of Huntron's Personal Troubleshooting Workstation concept. Now you can put together completely customized systems that meet your specific requirements. From simple benchtop troubleshooting units to fully automated systems that can test the toughest boards - the ones packed with the latest mixed- technology components. From through-hole to surface-mount. It's a system designed to expand to meet all your testing needs at an affordable cost.

The latest in signature analysis.

Twenty years ago, the first Huntron Tracker® analog signature analysis (ASA) instrument revolutionized the industry. It helped solve difficult problems - especially when a circuit could not be powered up - that conventional testing methods could not.

ASA works by applying a current-limited AC sine wave across two terminals of a component. You create a unique current vs. voltage signature that represents the overall health of the device under test. It lets you visualize component leakage and substrate damage that is difficult to find with conventional testing methods. You can troubleshoot components without applying power, saving circuits from possible further damage.

Programmable troubleshooting for more reliable results.

The ProTrack system is the first generation of programmable ASA instruments. It lets you set the voltage, resistance and frequency, to best match the characteristics you're testing for. At the same time, Huntron's exclusive STAR (Safe Tracker Active Range) feature eliminates the possibility of damaging a component by setting test parameters beyond its current limitations.

The value of customizing test ranges becomes apparent when you look at some actual examples. Even a simple circuit such as in this diagram can be tested for a number of different characteristics. A fixed-range test produces a composite signature that can mask those variations. By testing with different combinations of voltage and resistance, you can view signatures for each of the components of the composite signature.

The ProTrack I benchtop instrument lets you set and store 20 customized test groups, with four test ranges for each group. Connecting the Model 20 to a personal computer lets you create and store customized test ranges for an unlimited number of components and pins.

From benchtop to automated system.

By itself, the ProTrack I is the ultimate benchtop troubleshooting tool. By combining it with an IBM-compatible PC and with other Huntron personal troubleshooting workstation accessories, you can vastly extend its capabilities.

Computer control.

Using the ProTrack I system and its Huntron Workstation for Windows™ software with a personal computer brings a new level of efficiency to troubleshooting. It lets you:

- Create customized test routines for low-volume applications very quickly
- Develop tests for inadequately documented printed circuit boards
- Transfer test information between computers or locations
- Store and rearrange component databases
- Store up to ten individual models for each component
- View test results immediately
- Print and store test data for historical files.

Scan components quickly.

Adding a Huntron Scanner I to your ProTrack system lets you access components using standard DIP clips and cables. The ProTrack/Scanner I combination quickly scans and digitizes up to 128 points at a time. You can compare one component with another in real-time. Or use your PC to automate testing.

Complete automation.

For the utmost in automated testing, connect your Model 20 to a Huntron Robotic Prober. Probers use precision robotics to thoroughly test entire boards automatically. You can test even the most complex surface-mount components - such as PLCCs, SOICs, PGAs, SSOPs and QFPs -without expensive fixturing.

The advanced ProTrack Windows-based software and the Probers' built-in video targeting system let you test points with tolerances as tight as 0.001". You can test even complex boards very quickly. Technicians have more time to analyze data and make better troubleshooting decisions.

The power of the Personal Troubleshooting Workstation.

The ProTrack I Tracker Troubleshooting System. It's a complete workstation concept. From manual to fully-automated testing. From through-hole to SMT. The ProTrack I gives you the cost-effective solutions to the toughest challenges.

The versatile troubleshooting tool.

Huntron's ProTrack I Tracker troubleshooting system lets you customize test routines by combining the most cost-effective software and hardware to get the best results in any application.

Specifications.

PROTRACK I Model 20

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| Electrical (Note: Test Signal is a sine wave.) | |
| Open Circuit Voltage (Vs): | |
| 24 selections of peak voltage: | 200mV, 400mV, 600mV, 800mV 1V to 20V in 1V steps including 10V (Low), 15V (Med 1), 20V (Med 2) |
| Source Resistance (Rs): | |
| 16 selections of resistance: | 10 Ω , 20 Ω , 50 Ω , 100 Ω , 200 Ω , 500 Ω , 1k Ω , 2k Ω , 5k Ω , 10k Ω , 20k Ω , 50k Ω , 100k Ω , 54 Ω (Low), 1.2k Ω (Med 1), 26.7k Ω (Med 2) |
| (Short circuit current is Vs divided by Rs) | |
| Maximum | 200 mApk |
| Frequency (fs): | |
| 36 selections of frequency: | 20Hz to 190Hz in 10Hz steps ;200Hz to 1.9kHz in 100Hz steps; 2kHz to 5kHz in 1kHz steps |
| Channels | |
| Number | 2 |
| Display modes | A, B, Alt, A+B |
| Overtoltage Protection | Circuit breaker |
| Pulse Generator | |
| Level | 0 to $\pm 10V$ |
| Width (pulse mode) | 2% to 50% duty cycle |
| Source resistance | 100W |
| Short circuit current | 100mA max. |
| Displays | |
| CRT | monochrome, 2.8" (7cm) diagonal |
| LCD | full graphic, 128 x 64 pixels |
| Power Requirements | |
| Line Voltage | 90VAC to 250VAC |
| Frequency | 47Hz to 63Hz |
| Power | 30W |
| GENERAL | |
| Dimensions | 11.6" W x 4.5" H x 15" D (30cm W x 11.5cm H x 38cm D) |
| Weight | 10 lbs (4.5kg) |
| Temperature | |
| Operating | 32 F to +122 F (0 C to +50 C) |
| Storage | -4 F to +140 F (-20 C to +60 C) |
| Warranty | 1 year limited |

All specifications subject to change without notice.