

THE NEW HY-TRAK100D



**MICRO-OHMETER AND
PRECISION SHORTS
LOCATOR**


OMNITEST
THE BEST FROM THE WORLD OF TEST

HY•TRAK100D

The HY•TRAK 100D is the most sophisticated short-circuit locator available. To locate a solder bridge on a printed circuit board (or any other electronic assembly) you merely have to select the range-super sensitive HY•TRAK range for shorts between voltage planes - 200mΩ range for power tracks etc., place the two probes across the shorted tracks and slide the probes along the track until you either obtain the highest pitch or the lowest meter reading. You should now be within a few millimetres of the physical short. What could be easier?

FEATURES

- 🔌 LCD for accurate and clear readout.
- 🔌 HY•TONE audio frequency doubles within 2% of measurement to emphasise precise location of shorts.
- 🔌 Custom-made high quality, hard wearing probes - Kelvin connected - ensures optimum accuracy at probe-tips.
- 🔌 Sophisticated probe I/P protection utilising TRIAC circuits - ensures complete protection up to mains voltages.
- 🔌 HY•TRAK range for precise short location on low-ohmic connections e.g. shorts between voltage planes.
- 🔌 Rugged shock-proof construction means drop resistant instrument with no delicate meters to damage or overload.
- 🔌 Fully isolated probes - no false readings due to earth loops.

Distributed by:

SPECIFICATIONS

Five Measurement Ranges

HY•TRAK, 200mΩ, 2Ω, 20Ω and 200Ω.

Measurement Accuracy

±2% of reading ±1 digit.

Display

3½ digits with decimal point.

Measurement Rate

3 per second.

Probes

Four wire Kelvin connected, via high quality connector to instrument.

Measurement Technique

d.c. current injection, dual slope integration measurement.

Max. Voltage between Probe Tips

20mV for valid reading - O/C probes clamped to 600mV maximum.

Overvoltage Protection

to 240V a.c. (Fast semiconductor clamp with quick blow fuses).

Audio Tone Response

<50m seconds.

Dimensions

75mm Height, 220mm Width, 240mm Depth (excluding handle).

Weight

1.2kg.

Calibration

Internal 100Ω± 1% resistor available at rear panel.

Controls

Rotary volume, 5 push button range switches, cal. and zero preset-rear panel.

Output

LCD Display and audio output.

Power Consumption

12 watts

Operating Voltage

230V 50Hz or 115V 60Hz.

Operating Temperature

0-70°C.

RANGE	20mΩ	200mΩ	2Ω	20Ω	200Ω
Resolution	N/A	100μΩ	1mΩ	10mΩ	100mΩ
Accuracy	N/A	100μΩ	1mΩ	10mΩ	100mΩ
Injection Current	100mA	100mA	10mA	1mA	100μA
Max. Applied Voltage	20mV	20mV	20mV	20mV	20mV
Audio Tone Range (Approx).	20mΩ	60mΩ	600mΩ	6Ω	60Ω

HY•TRAK 100L - ULTRA LOW RANGE INSTRUMENT

The Low Range HY•TRAK is a variant of the basic HY•TRAK instrument. The principal difference is that its measurement range is 20 milliohms full scale to 20 ohms full scale, in switched decade steps.

The HY•TRAK button now operates on the 20 milliohm range. With standard settings, the full scale tone range is thus 2 milliohms.

All ranges are now shifted down by a factor of ten. The accuracy on the 20 milliohm range is ±5% ±1 digit.

CE



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