

Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 2 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, covering the cost of warranty returns BOTH ways (plus supplying a loan unit, if available) and supplying a free business tool with every order.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based near Heathrow Airport in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

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General Characteristics

Operating Conditions:

Temperature: 0° to +45° C

Humidity: 95% RG at 40° C

Non-operating Conditions:

Temperature: -40 to +70° C

Safety: Based on IEC-348, UL-1244

Power: 100, 120, 220 V ±10%, 240 V -10% +5%, 48 Hz to 60 Hz, 500 VA max.

Size: 425 mm W x 375 mm H x 620 mm D (16.75 in x 14.8 in x 24.4 in)

Weight: Approximately 41 kg (90.4 lb)

HP 41951A Impedance Test Kit

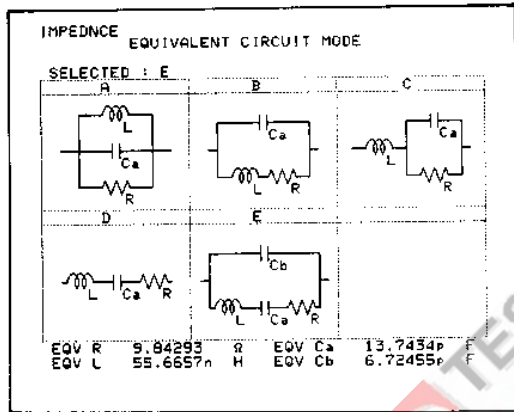
The HP 41951A can be used for impedance measurements from 100 kHz to 500 MHz when used with the HP 4195A.

Measured Parameters: |Z|, |Y|, θ, L, C, R, X, G, B, D, and Q

Error Compensation: 1 port cal., open/short offset, and port extension

Equivalent Circuit Analysis: Circuit constants approximation and simulation of frequency characteristics

Available Accessories: Refer to page 344



HP 41951A

HP 41952A/B Transmission/Reflection Test Sets

Two test sets of the HP 41952A or 41952B (Option 009) allow the HP 4195A to perform full S-parameters measurement without having to remove and reverse the device. The HP 41952A is used for 50 Ω application, and the HP 41952B is used for 75 Ω application.

Specifications

	HP 41952A	HP 41952B
Impedance:	50 Ω	75 Ω
Frequency range:	100 kHz to 500 MHz	100 kHz to 500 MHz
Directivity:	40 dB @ 300 kHz to 200 mHz	35 dB @ 800 kHz to 200 mHz
Frequency response: *1		
Transmission magnitude, phase (@ ≥300 kHz):	±1 dB, ±5 deg	±1 dB, ±5 deg
Reflection magnitude, phase (@ ≥1 MHz):	±1 dB, ±5 deg	±1 dB, ±5 deg
Effective source match: test port	>20 dB @ ≥300 kHz	>20 dB @ ≥300 kHz
Connector: test port	50 Ω type N-(f)	75 Ω type N-(f)
Accessories furnished	50 Ω cable Operating Note Carrying Case	50 Ω cable HP 11852B M.L. Pad Operating Note Carrying Case

Note: HP 41952B Option 009 deletes 50 Ω N cable and HP 11852B.

*1: Typical



HP 41952A



HP 41800A

HP 41800A Active Probe

The HP 41800A Active Probe is a high-input impedance probe that covers the frequency from 5 Hz to 500 MHz, and makes it easy to perform signal analysis of circuits in audio, video, HF, and VHF band.

Specifications

Bandwidth: 5 Hz to 500 MHz

Input R, C (nominal): 100 k Ω, 3 pF (probe alone)

Average Noise Level (typical): 10 nV/√Hz 300 kHz to 500 MHz

2nd Harmonic Distortion: <-50 dBc -20 dBc input

Output Connector: 50 Ω type-N male

Accessories Furnished: 10:1 divider, hook tip, ground leads, spare tips, BNC male adapter, and so on

Accessories Available

HP 85044A/B Transmission/Reflection Test Set

HP 85024A High-Frequency Probe

Key Literature

HP 4195A Network/Spectrum Analyzer Technical Data, p/n 5952-7970

Ordering Information

HP 4195A Network/Spectrum Analyzer

Opt W30 Extended Repair Service

Opt 001 High-Stability Frequency Reference

HP 41951A Impedance Test Kit

HP 41952A 50 Ω Transmission/Reflection Test Set

HP 41952B 75 Ω Transmission/Reflection Test Set

Opt 009 Delete 50 Ω N Cable and 11852B

HP 41800A Active Probe