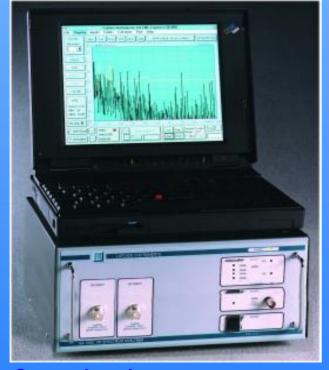
SA1002 EMC Analyser

Compliance EMC conducted and radiated measurements to 1GHz

- 10KHz—1GHz range to cover EN, FCC and international standards.
- Powerful PC software control and automation included.
- 200Hz RBW and Tracking Generator options.
- USB interface for very simple operation.
- Compact and simple to use whilst including all the necessary features for self testing your own products.



Comprehensive The SA1002 covers both conducted and radiated emissions testing from 10KHz to 1GHz. An optional 200Hz I.F. filter ensures fully compliant measurements covering ALL emissions including Band A (9KHz—150KHz).

Powerful This analyser and the associated software includes all the facilities required to perform accurate EMC measurements, even on non-compliant test sites

Convenience The SA1002 and associated ancillaries can eliminate the use of expensive and inconvenient test lab visits. The 'Self test and self certification' strategy avoids costly reworking of design and reduces 'time-to-market'.

Simplicity These systems are renowned for ease of operation. The software is outstanding in terms of flexibility and intuitive user interface.

The Laplace SA1002 EMC analyser provides an exceptionally powerful and cost effective tool for manufacturers and others who wish to measure EMC emissions from their products. When used with the RF9xx range of pre-selectors, accurate measurements even with conducted broadband emissions are obtained.

Entirely controlled from an intuitive Windows software package, the analyser can enable a self-test and self-certification strategy to be adopted with confidence. The software is a true Windows program which means that results can be easily transferred to printer and disk and to other applications such as Word and Excel. A full range of compatible accessories is available, including compact test cells and antennas, all fully calibrated to 3GHz.



LAPLACE INSTRUMENTS LTD

SA1002

SA1002 3GHz EMC analyser

Hardware

The SA1002 is an exceptionally well featured EMC analyser designed to match the requirements of all common EMC standards and includes.....

- 10KHz—1GHz frequency range
- 200Hz (opt), 9KHz, 120KHz and 1MHz RBW
- Peak, Quasi-peak and Average detectors
- Precision frequency measurement at all points in any scan.
- Instant zoom capability to any point in a scan.
- Audio demodulator (FM and AM)
- USB interface, just plug and go!
- Optional pre-selector for conducted emissions.
- Optional tracking generator output.

Software

Software is at the heart of any EMC test system. The Laplace RFemissions software is a fully integrated Windows compliant package. It not only directly controls all aspects of the analyser, it sets the test conditions such as input device, antenna correction and insertion loss. It also includes unique features which can cancel ambient signals, calibrate your radiated test site (in conjunction with an ERS) and provide instant zoom anywhere in the scan.

This software is specifically designed for ease of use by non-EMC expert staff, but retains many exceptionally advanced features.

Finally.....The Laplace range is fully supported worldwide. Helplines and lifetime software support are included for all our customers.

Specification Hardware		Software	
Frequency range	10KHz—1GHz	Compatibility	Any PC running Win98 or later o.s.
Scan coverage	Continuous scan, no gaps on any range	Functions	Total control of all aspects of SA3000
Zoom settings	Infinitely variable.		operation, results display, saving to disk, printer output, and all EMC data processing.
Minimum zoom	<30MHz: 500KHz >30MHz: 10MHz Plus single frequency mode	Graphical scale, Vertical Horizontal	dBuV, dBm, dBuV/m, dBuA KHz, MHz,. Log or Linear mS or S (Single freq. Mode)
Sensitivity:	2dBuV with pre-amplifier ON	Single freq. mode	Simultaneous plot of Pk, QP and Ave values vs
Flatness	±3dB		time.
Max RF input level	+3dBm	Traces	Current, Stored, Difference, Archive and Limits
Compression warning	Detector at input.	Pre-loaded Limits	EN55011/12/13/14/15/22/25 EN50081-1 and -2.
Spurious responses	<5dB above baseline		FCC, As/NZ equivalents
Input protection	Diode clamped	Additional and User limits	Tabular entry field. Automatic interpolation
RBW	200Hz (option), 9KHz, 120KHz	Antenna factor correction	Automatic
Input dynamic range	70dB	Additional correction data	Tabular entry field. Automatic interpolation
RF attenuator	0. 10, 20, 30dB		against linear or log frequency axis.
Audio demodulator	Slope demodulator (FM and AM). Variable volume control.	Tabular listing	Up to 20 selected points. Real time display of Pk, QP and Ave values
Detectors	Peak, Quasi-peak and Average.	Cursor readout.	All trace values and freq. readout at cursor location.
Frequency accuracy	Better than 80ppm anywhere in scan.	Expert system	TestDirector mode provides full details of
Scanning Modes	Continuous scanning, single scan and single frequency mode,		common standards and associated test techniques.
Optional tracking generator Frequency range	10KHz—1GHz, locked to scan frequency	Data storage	Full data set with setup and limits with title and notes saved to user selected file.
Output level Control	-20dBm (87dBuV) nominal Via USB interface	Data retrieval	Traces and setups can be recalled in any combination.
Control software	Windows software included	Printer	Direct output to any Windows printer.
Connectors:	<1GHz, N type	Data Format	ASCII text, comma delimited
Power	230V 50/60Hz 40W 115V factory set option	Order codes:SA1002Standard analyser with PC software.SA1002-AAs above, plus 200Hz RBW for Band A.SA1002-TGIncludes tracking generator option.SA1002-ATGIncludes both options.	
Physical	30.5 x 27 x 14.5cm Weight: 5kg		
Available from		I APLACE INS	STRUMENTS LTD

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