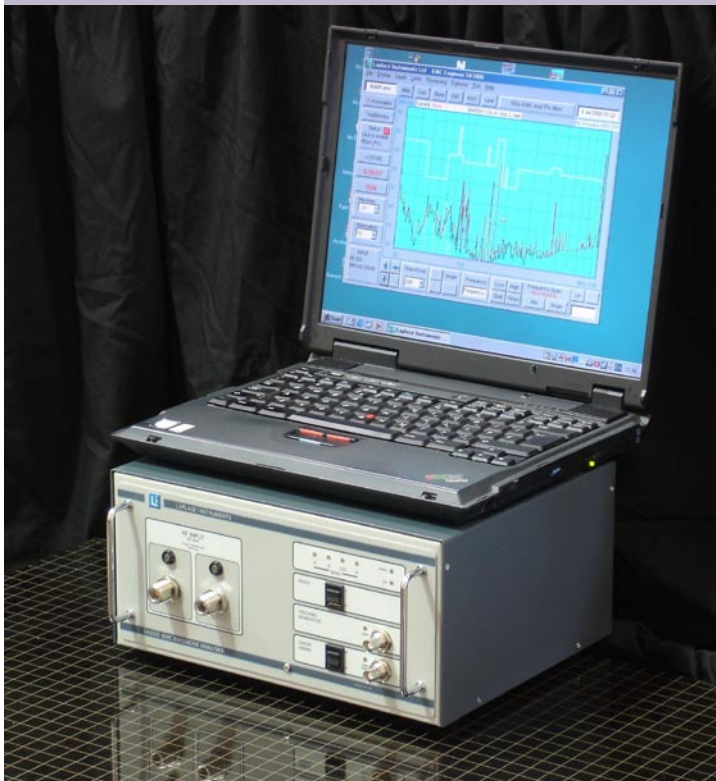


Compliance EMC conducted and radiated measurements to 1GHz

- ▼ 9KHz—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.



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, LISN's and probes.

COMPREHENSIVE The SA1002 covers both conducted and radiated emissions testing from 9KHz 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.



SA1002, 1GHz EMC analyser

Hardware

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

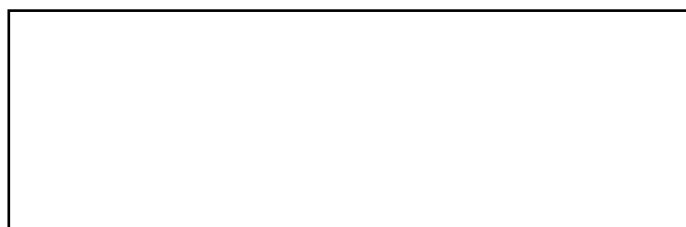
- 9KHz—1GHz frequency range
- 200Hz (opt), 9KHz, and 120KHz
- Peak, Quasi-peak and Average detectors
- Precision frequency measurement at all points in any scan.
- Instant zoom capability to any point in a scan.
- Audio demodulator (FM and AM)
- USB interface, just plug and go!
- Optional pre-selector 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	9KHz—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 operation, results display, saving to disk, printer output, and all EMC data processing.
Zoom settings	Infinitely variable.	Graphical scale , Vertical Horizontal dBuV, dBm, dBuV/m, dBuA KHz, MHz., Log or Linear mS or S (Single freq. Mode)
Minimum zoom	<30MHz: 500KHz >30MHz: 10MHz Plus single frequency mode	Single freq. mode Simultaneous plot of Pk, QP and Ave values vs time.
Sensitivity:	2dBuV with pre-amplifier ON	Traces Current, Stored, Difference, Archive and Limits
Flatness	±3dB	Pre-loaded Limits EN55011/12/13/14/15/22/25 EN50081-1 and -2. FCC, As/NZ equivalents
Max RF input level	+3dBm	Additional and User limits Tabular entry field. Automatic interpolation
Compression warning	Detector at input.	Antenna factor correction Automatic
Spurious responses	<5dB above baseline	Additional correction data Tabular entry field. Automatic interpolation against linear or log frequency axis.
Input protection	Diode clamped	Tabular listing Up to 20 selected points. Real time display of Pk, QP and Ave values
RBW	200Hz (option), 9KHz, 120KHz	Cursor readout. All trace values and freq. readout at cursor location.
Input dynamic range	70dB	Expert system TestDirector mode provides full details of common standards and associated test techniques.
RF attenuator	0, 10, 20, 30dB	Data storage Full data set with setup and limits with title and notes saved to user selected file.
Audio demodulator	Slope demodulator (FM and AM). Variable volume control.	Data retrieval Traces and setups can be recalled in any combination.
Detectors	Peak, Quasi-peak and Average.	Printer Direct output to any Windows printer.
Frequency accuracy	Better than 80ppm anywhere in scan.	Data Format ASCII text, comma delimited
Scanning Modes	Continuous scanning, single scan and single frequency mode.	Order codes:
Optional tracking generator		SA1002 Standard analyser with PC software.
Frequency range	9KHz—1GHz, locked to scan frequency	SA1002-A As above, plus 200Hz RBW for Band A.
Output level	-30dBm (77dBuV) nominal	SA1002-TG Includes tracking generator option.
Control	Via USB interface	SA1002-A-TG Includes both options.
Control software	Windows software included	
Connectors:	<1GHz, N type	
Power	115V - 230V 50/60Hz 40W	
Physical	30.5 x 27 x 14.5cm Weight: 5kg	

Available from:



LAPLACE INSTRUMENTS LIMITED

3B, Middlebrook Way, Holt Road,
Cromer, Norfolk NR27 9JR. UK

Tel: +44 (0)1263 51 51 60

Fax: +44 (0)1263 51 25 32

E-mail: tech@laplace.co.uk

Website: www.laplace.co.uk

