

HM5012 & HM5014, the Spectrum Analyzers for EMC Measurements

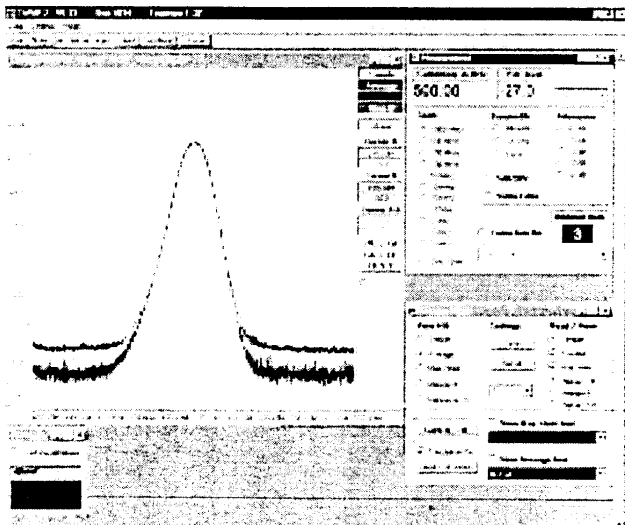
- Continuous frequency range from 150 kHz to 1050 MHz.
- Amplitude range from -100 dBm to +13 dBm (7 dB μ V to 120 dB μ V) 80 dB on-screen
- Resolution bandwidths of 9 kHz, 120 kHz, 400 kHz
- Intermodulation-free dynamic range 75 dB
- Save / Recall

Technical Characteristics

The new spectrum analyzer HM5012 and HM5014 is based in general on the high frequency characteristics of the HM5010 and the HM5011 analyzers. The usable frequency range is therefore from 150 kHz to above 1 GHz. The available resolution bandwidths are 9kHz, 120kHz and 400 kHz. Completely new is primarily the processor-controlled operation and a digital signal display which works in real-time, and is resolved with up to 2000 points over the entire screen. The screen will also display all selected frequency settings and the marker results.

The unique features of this spectrum analyzer are the extensive EMC measurement capabilities. These include the amplitude indication in Peak and Average modes. For the precise evaluation of the signals a marker is provided that will give a readout for amplitude and frequency on-screen.

An additional advantage is that newly acquired signals can be compared with the content of the reference storage. Complicated and repeatedly used equipment adjustments can be saved by use of the Save/Recall function.



HM 5014

The Model HM5014 includes a tracking generator that can be used to evaluate the frequency characteristics of 4-terminal devices, such as filters.

The Interface

The Analyzers are supplied with an RS-232 interface for PC communication and print-out via PC. The optional HZ70 optoisolator with fiber-optics cable is available to isolate the spectrum analyzer from interference effects and ground loops.

The Software

The software for extended functions and for the evaluation of measurement results via PC is part of the spectrum analyzer and provides the following features:

- Numeric indication of measurement values.*
- Average, peak and quasi peak values with corresponding cursor.*
- Storage of reference spectra for comparison.*
- Freely definable limit lines.*
- Indication of above-limit signals.*
- Correction factors for antennas.*
- Script-control for automatic measurements.*
- Printout in tabular form (e. g. table calculations).*
- B/W or color printouts of the spectra with printer selection for all printers supported by Windows®.*

A manual for various EMC applications is provided.

Accessories supplied

Software for evaluation, Documentation and Remote Control. Power Cable, Operating Manual.

Optional accessories

Optical Interface (RS232)	HZ 70
Telescope Antenna	HZ 520
Transient Limiter	HZ 560
Near Field Probes (E, H, High Imp. Probe)	HZ 530
LISN (EMC)	HM6050