Specifications

Frequency

Frequency Range: 0.15 MHz to 500MHz
Frequency Resolution displayed: 100kHz (4 Digit)
Center Frequency Range 0 to 550 MHz
Accuracy: ±100kHz
Stability (Drift)**:** <150kHz / h
Span: Zero span; 100kHz/Div to 100MHz/Div in steps of 1-2-5
Accuracy: ±10%
Marker Resolution (Frequency)**:** 4digits
Marker Accuracy: ±(0.1% span + 100kHz)
Resolution Bandwidth, RBW(-3dB):20kHz,250kHz
Video Bandwidth, VBW**:** 4kHz, 250kHz
SWT (fixed): 23ms

Amplitude

Measurement Range: –100dBm to +13dBm
Displayed Average Noise Level: –103dBm (250kHz RBW)
Frequency Response ±2 dB
(Relative to 250 MHz, ATTN 10 dB)
Input Attenuator Range: 40 dB, 10 dB steps
Accuracy (reference level)**:** ±2 dB
Maximum Safe Input Level
Attenuator setting 20db: +20 dBm (0,1W)
Attenuator setting 0dB: +10 dBm
DC: ±25 V
Display Range: 80 dB, 8 Divisions
Scale Units dBm
Reference Level: –27,–17,–7, +3 and +13dBm
Res. Bandwidth Switching Uncertainty: ±1dB
Spurious responses:
Intermodulation (3rd Order)**:** < –70 dBc
(2 Signals, –27 dBm each, Frequency distance>3MHz)
Harmonic Distortion (2nd, 3rd)**:** < –75 dBc
Absolute Amplitude Accuracy: ±2.5 dB

Tracking Generator (only HM5006)

Output Frequency Range: 0.15MHz to 500MHz
Output Power Level: –50dBm to +1dBm (in 10dB steps and var.)
Output attenuator: 0 to 40dB (4 x 10dB steps)
Output attenuator accuracy: ±1dB
Output flatness: (150kHz to 500MHz) ±1.5dB
Spurious Outputs: Harmonic Spurs <20dBc
Non-Harmonic Spurs <20dBc
Output impedance /(Conn.): 50Ω /(BNC Female)

Miscellaneous

AM-Demodulator Ear Phones
Probe Power 6V (Close Field Probes)

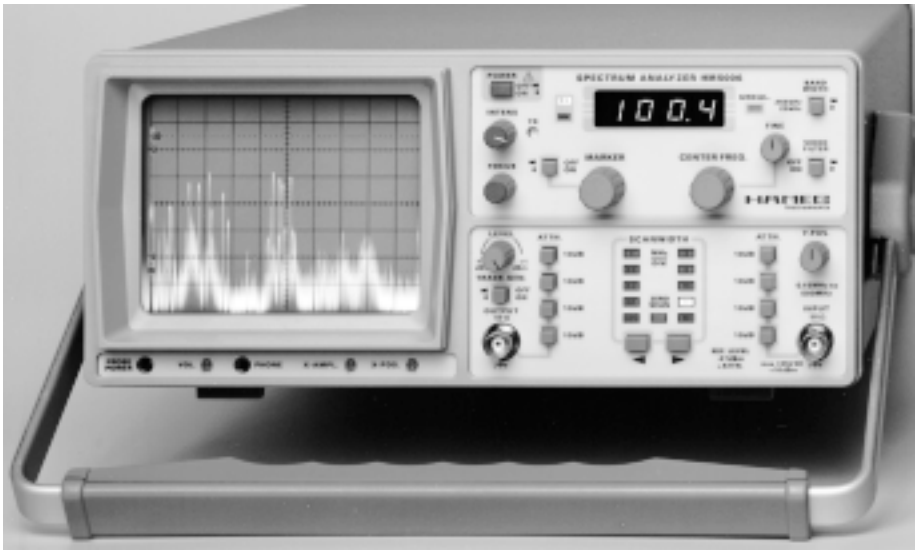
General

Display: CRT 6 inch, 8 x 10 div. intern. graticule
Trace rotation: Adjustable on front panel
Line voltage: 115 / 230V ±10%, 50-60Hz
Power consumption: approx. 20W
Operating ambient temperature: 10°C..+40°C
Protective system: Safety Class I (IEC 1010-1)
Cabinet: W 285, H 125, D 380 mm
Weight: approx. 7kg

Subject to change without notice 1/98

Accessories supplied:
Line cord, Operators Manual

Optional Accessories
look at page No. 20-22



Spectrum Analyzer HM5005 / HM5006

Frequency Range: 0.15MHz - 500MHz.
4 Digit Display (Center & Marker Frequency, 0.15MHz resolution)
Amplitude Range: –100 to +13dBm
Filters: 20kHz, 250kHz and Video Filter

Tracking Generator (HM5006 only) 0.15MHz - 500MHz.
Output Power: +1dBm to –50dBm (50Ω).

The **HM5005-3/HM5006-3 Spectrum Analyzer** is the ideal instrument for analyzing any kind of signal within the frequency range of **0.15 to 500MHz**. Both models include a **Scanwidth Selector** that can adjust the frequency display width from **50kHz to 50MHz per division**.

The analyzer can measure low amplitude signals and has a **measurement range of over 113dB**. Including switchable attenuators, a range of **-100dBm to +13dBm** can be measured with 80dB being displayed on the screen at 10dB/division. In "**Zero Scan Mode**" selective amplitude level measurements can be performed, while tuned to a fixed frequency.

Both models include a **4 digit numeric LED** readout that can selectively display either the **Center** or **Marker Frequency**. Frequency measurement is accomplished by adjusting a needle-like cursor to the point of interest on the display and reading the 4 digit **Marker Frequency** value.

The model **HM5006-3** also includes a **Tracking Generator** that permits a **two port** measurement that is useful in network and filter passband analysis. The Tracking Generator is a frequency synchronous signal source with a range of **150kHz to 500MHz** that is controlled by the frequency of the spectrum analyzer. The output level is adjustable from **–50dBm to +1dBm** in four **10dB** switchable steps in addition to an **11dB** rotary variable attenuator control.

The **HM5005-3/5006-3 Spectrum Analyzer** is extremely low-priced, but well equipped to meet the RF measurement needs of education and industry. With this user friendly instrument **HAMEG out-performs** and **out-prices** its competitors. An optional measurement output for a PC with the **HO500-2 Interface** which makes documentation of results easy and affordable.

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