

Spectrum Analyser/Tracking Generator HM5006.

Frequency Range 0.5MHz - 500MHz.

4 Digit Display (Center & Marker Frequency, 0.1MHz resolution) -100 to +13dBm

Amplitude Range, 12.5kHz, 250kHz and Video-Filter.

Tracking-Generator only:

Frequency range: 0.1MHz - 500MHz.

Output Voltage: +1dBm to -50dBm (50R).

The **HM 5006** has all the features and specifications of the HM5005 but also includes a Tracking Generator in one intergrated unit that permits a four terminal measurement that is useful in network and filter passband analysis.

The Tracking Generator is a frequency synchronous signal source with a range of 100kHz to 500MHz that is controlled by the frequency of the spectrum analyser. The output level is adjustable from -50dBm to +1dBm in four 10dB switchable steps in addition to an 11dB rotary variable attenuator control.

Specifications

Frequency

Frequency Range:	0.5MHz to 500MHz (-3dB)
Centre Freq. Display Accuracy:	±100kHz
Marker Accuracy:	±(0.1% span + 100kHz)
Frequency Display Resolution:	100kHz (4 digit LED)
Frequency Scanwidth:	50kHz.div. to 50MHz/div. in 1-2-5 steps and 0Hz/div. (Zero scan)
Frequency Scanwidth Accuracy:	±10%
Frequency Stability:	Drift: <150kHz/ hour
IF Bandwidth(-3dB)	Resolution: 250kHz and 12.5kHz Video-filter on: 4kHz
Sweep Rate:	43Hz

Amplitude

Amplitude Range:	-100dBm to +13dBm
Screen Display Range:	80dB (10dB/div.)
Reference Level:	-27dBm to +12dBm (in 10dB steps)
Reference Level Accuracy:	±2dB
Average Noise Level:	-99dBm (12.5kHz BW)
Second and Third Harmonic:	<-75dBc
Third Order Intermod.:	-70dBc (two signals >3MHz apart)
Log Scale Fidelity:	±2dB (without attn.) 250MHz
IF Gain:	10dB adjustment range

Input

Input Impedance:	50R
Input Connector:	BNC
Input Attenuator:	0 to 40dB (4 x 10dB steps)
Input Attenuator Accuracy:	±1dB
Maximum Output Level:	+10dBm, ±25Vdc, (with 0dB attenuation) +20dBm (with 40dB attenuation)

Tracking Generator

Output Level Range:	-50dBm to +1dBm (in 10dB steps and var.)
Output Attenuator:	0 to 40dB (4 x 10dB steps), Acc.: ±1dB
Output Impedance:	50R (BNC)
Frequency Range:	0.1MHz to 500MHz, Freq.Response: ±1.5dB
Radio Frequency Interference:	<20dBc

General

Operating Temperature:	10°C to 50°C,
Display:	6" CRT, 8 x 10 div. graticule
Trace Rotation:	Adjustable on front panel
Line Voltage:	90 - 260Vac, 50/60 Hz

Power Consumption:

20W approx.

Dimensions:

125 x 285 x 380mm,

Weight: 6 kgrams approx.

Accessories Supplied:

Line cord, Operators Manual