

## Product Description:

Anritsu MS610B 10kHz to 2GHz, 50ohm Portable Spectrum Analyzer

The Anritsu MS610B spectrum analyzer is a wide band, very sensitive receiver. It works on the principle of "super-heterodyne receiver" to convert higher frequencies (normally ranging up to several 10s of GHz) to measurable quantities. The received frequency spectrum is slowly swept through a range of pre-selected frequencies, converting the selected frequency to a measurable DC level (usually logarithmic scale), and displaying the same on the CRT of the Anritsu MS610B. The CRT displays received signal strength (y-axis) against frequency ( x-axis).

Some applications for Anritsu MS610B Spectrum Analyzers include Site Monitoring: Verify that the frequency and signal strength of your transmitter is accurate. Interference: Before a system is installed you use a Anritsu MS610B spectrum analyzer to verify that the frequencies (you plan to use) are not occupied or if the presence of a very strong signal will interfere with your new setup. Interference can be created by a number of different situations. Other tests that utilize the Anritsu MS610B spectrum analyzer features include antenna isolation, co-channel interference, adjacent channel power, occupied bandwidth, intermodulation, microwave or satellite antenna alignment, and characterization of components.

## Performance Characteristics of the MS610B

Form Factor	Benchtop
Input Impedance	50 Ohm
Minimum Frequency	10 kHz
Maximum Frequency	2 GHz
Zero Span	Yes
Minimum Span	0.1 MHz
Maximum Span	1 GHz
Minimum Sweep Time	10 ms
Maximum Sweep Time	10 s
Minimum Resolution Bandwidth	1 kHz
Maximum Resolution Bandwidth	1 MHz
Resolution Bandwidth Steps	1/3/10
Minimum Video Bandwidth	100 Hz
Maximum Video Bandwidth	10 kHz
Video Bandwidth Steps	1/10/100
Maximum Single-Side-Band Noise	-70 dBc/Hz
Maximum Safe AC Input	20 dBm
Maximum DC Input	50 V
Maximum Displayed Average Noise	-115 dBm
Maximum Amplitude Uncertainty	1.5 %
Trigger Modes	Freerun,TTL

Connector type (main signal)	Type-N(f)
Cal Output Connector Type	BNC(f)
Probe Power	No
Noise Source Driver	No

### Programmability/Connectivity of the MS610B

User Interface	Proprietary
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### MS610B Life Cycle Data

Out of Production	Jan-01-2005
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### MS610B Compliance

CE Compliance	Not on file
UL Compliance	Not compliant

### MS610B Power Requirements

Input Power	Universal (Auto Sense and Switch)
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### MS610B Physical Dimensions

Width: 284 mm(11.18 in)  
Height: 177 mm(6.96 in)  
Length: 351 mm(13.81 in)  
Weight: 13.5 kg(29.76 lb)

### MS610B Standard Accessories

F0008 /Fuse, 1.0 A /Qty:2  
J0017 /Power Cord, 2.5m /Qty:1  
J0025A /Coaxial Cable, 1m /Qty:1  
J0104A /Coaxial Cable, 1 m (S-5DWP.5DW2W.S-5DWP) /Qty:1  
J0121 /Coaxial Cord, 1m (BNC-P.RG-55/U.N-P) /Qty:1  
W0268AE /MS610B/J Operation Manual /Qty:1  
W0268BE /MS610B/J Service Manual /Qty:1