

Field Strength Analyzer UBA 9290



- Handheld and Battery operated
- TFT Color LCD Display 320 x 240
- Measurement Range 100 kHz to 2.9 GHz, Span Range 1 MHz to 1 GHz
- High Sensitivity -117 dBm
- Built-in Frequency Counter: 9 MHz to 2.1 GHz
- Display modes: Spectrum Analyzer, Bar Graph (5/11/21/51/101/201 Channels, Single Bar, Difference)
- Sweep Mode (Free Run, Single Run, Squelch Run)
- Marker 1,2, Delta, Peak, Center
- Memory: 100 Waveforms / Settings

AWT Global's new UBA 9290 is battery operated, hand-held RF Field Strength Meter with spectrum capability. It is ideal for measuring various RF signals and with a frequency range of 100 kHz to 2900 MHz, it is suitable for many applications in telecommunications, cable TV, RFID, WiFi, and general analysis, service and maintenance of RF systems. The low noise floor of -117 dBm allows to detect and analyze even weak signals. With its basic spectrum analyzer functionality, the UBA 9290 is well suited for many applications in the field, laboratory and even production. It provides engineers and technicians a cost-effective but powerful tool for RF signal analysis, and that at a fraction of the cost of a full-features conventional spectrum analyzer.

With its user friendly interface, the UBA 9290 is very easy to use. It allows to conveniently setting the measurements, but offers also 100 presets such as predefined range or channel settings and other special functions that are commonly used in analog communication systems. The analyzer supports high-speed USB and includes software that controls the instrument from a PC. Measurement data can be stored on the computer for further analysis.

The affordable handheld RF Field Strength Analyzer UBA 9290 is an ideal tool for field testing installing and maintaining mobile telecommunication systems such as cellular phones, Cable and Satellite TV Systems as well as performing antenna site measurements and maintenance.

Applications

- Measurement and analysis of RF signals.
- Installation and maintenance of RF and wireless equipment and cable TV installations.
- Signal coverage (drive tests, walk tests).
- RFID tag RF strength measurements.
- Satellite antennas installation and maintenance.
- Tapping, hidden camera detection.
- Jammer (military, hospital & theater) performance test.



RF & Microwave Technology

AWT-Global provides advanced telecommunication technology products and analyzers for a variety of RF and Microwave applications. For more information on any of our products or services please visit our Web site: www.awt-global.com

UBA 9290

The UBA 9290 is a compact, light-weight but cost effective field strength analyzer with spectrum capability. Furthermore, it offers frequency measurement capabilities. Even if the budget is tight, measurements need to be accurate and reliable. The UBA 9290 is ideal for quick signal analysis in the field and in the lab. With only 400g of weight it will be a permanent companion of RF engineers and technicians.

Technical Specifications

Frequency	
Range	100 kHz to 2.9 GHz
Accuracy	TXO: +/- 2.5 ppm
Reception sensitivity	0-6 dBu EMF (S/N: 10 dB @ W-FM, 12 dB @ N-FM)
Resolution	5 kHz (multiples of 5 kHz)
Step range	Multiples of 5 kHz & 6.25 kHz
Span range	1 MHz to 1 GHz

Amplitude	
Units	dBm, dBmV, dBuV
Range	-32 to -117 dBm (N-FM) -22 to -107 dBm (W-FM, AM, SSB)
Resolution	0.1 dB
Accuracy	2 dB (23°C +/-3°C)
Bandwidth	N-FM: 12.5 kHz, W-FM: 180 kHz, AM/SSB: 2.4 kHz
Attenuator	10, 20, 30 & 35 dB
Spurious noise level	-45 dBc (N), -35 dBc(W)
Input impedance	50 Ohms / 75 Ohms
Connector	N-Type female
Max input level	10dBm, 5 Vrms

Sweep	
Speed	500 ms
Trigger source	N-FM, W-FM, AM, SSB
Trigger mode	Free, single, continuous; squelch
Marker mode	Off, 1&2, Delta, Peak, Center

Memory	
Trace & setup storage	100 Waveforms and Settings

Display	
Type	Color TFT 320 x 240

Frequency Counter	
Frequency range	9 MHz to 2.1 GHz
Connector	BNC -female, 50 Ohms
Resolution / Digits	1 kHz, 7 digits
Accuracy	50 ppm, +/- 1 count
Sampling time	512 ms
Input sensitivity	150 mV (9 MHz - 2.1 GHz) 100 mV (20 MHz - 1.0 GHz)
Max input voltage	5 Vrms

Computer Interface	
USB	cable included

Audio	
Output	1W into 8 Ohm speaker

Power	
Battery	6x AA-Type Ni-MH, 1.2V 2.700 mAh, rechargeable
Adapter	Output DC 9V AC 100 - 240V

Environment	
Operating temperature	0°C to 40°C
Relative humidity	35 to 85% non condensing
Storage temperature	-10°C to 50°C

Physical Specifications	
Dimensions	82 x 205 x 36 mm 3.2 x 8.1 x 1.4 inches
Weight (w/o batteries)	0.395 kg (0.87 lbs)

Product Quality

AWT is committed to providing our customers products that meet highest quality standards.

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Ordering

Type	Description
UBA9290	Field Strength Analyzer 9290 Set including: Analyzer, Antenna, BNC-BNC Cable, N to BNC Adaptor, Earphone, Ni-MH Rechargeable Batteries, AC/DC Adaptor, USB Cable, Manual, Carrying Case, Carrying Strap, GUI Software
MPADBNC3G	Matching Pad 50 Ohm BNC male to 75 Ohm BNC female, 3 GHz (only sold with UBA9290)