Keysight FieldFox RF and Microwave Combination Analyzers, 4/6.5/9/14/18/26.5 GHz

Delivers benchtop accuracy and MIL-Spec durability to field applications

FieldFox brings bench-level accuracy into the field by delivering precise handheld RF and microwave measurements that agree with benchtop analyzers. The FieldFox combo analyzer (N991x) base function is a cable and antenna analyzer and can be configured to include a spectrum and full 2-port network analyzer. To save space in a field kit, built-in capabilities can be added to provide up to 10 instruments in 1.

Key features

– Cable and antenna analyzer (return loss/distance-to-fault)
– Spectrum analyzer
– Full 2-port vector network analyzer
– Built-in power meter
– Independent signal generator
– Vector voltmeter
– Interference analyzer
– Built-in variable DC voltage source
– Frequency counter
– Built-in GPS receiver
– ECal support
– Pulse measurements

Key differentiators

– Rugged and weather resistant:
  – Meets MIL-PRF-28800F Class 2, no vents or fans, wide operating temp of –10 to +55 °C (14 to 131 °F)
  – Meets IEC/EN 60529 IP53 requirements
  – Type tested and meets Procedure 1 requirements for operation in explosive environments. MIL-810G, Method 511.5
– Portable:
  Compact, light-weight 3.0 kg (6.6 lbs) package
– Combination analyzers:
  – Spectrum analyzer provides best amplitude accuracy ± 0.5 dB, no warm up required
  – VNA and cable and antenna analyzer can test cables, antennas, and other devices without external cal kits (QuickCal and CalReady)
  – Built-in microwave independent signal source with flattened power output makes system verification easier in the field
  – Full-band tracking generator
– Standard 3 year warranty

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Function	Description
Cable antenna analyzer and vector network analyzer	
Frequency	30 kHz to 4 GHz, 6.5 GHz, 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
Dynamic range	Up to 100 dB
Output power	Up to +1 dBm
Spectrum analyzer	
Frequency	5 kHz to 4 GHz, 6.5 GHz, 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
Spur-free dynamic range	≥ 105 dB
Phase noise	–111 dBc at 10 kHz offset
Independent source	
Frequency	30 kHz to 4 GHz, 6.5 GHz, 9 GHz, 14 GHz, 18 GHz, 26.5 GHz
General	
Environmental	Meets MIL-PRF-28800F Class 2
Temperature	Operating: –10 to +55 °C (14 to 131 °F)
Dimensions and weight	11.5" x 7.4" x 2.8" (292 x 188 x 72 mm), 3.0 kg (6.6 lbs) with battery

FieldFox RF and Microwave Combination Analyzer Options

The FieldFox base unit consists of a cable and antenna analyzer, the following accessories are included: AC/DC adapter, 1 battery, soft carrying case, LAN cable, quick reference guide and user guide.

Model number	Frequency	Description
N9913A	4 GHz	FieldFox RF analyzer
N9914A	6.5 GHz	FieldFox RF analyzer
N9915A	9 GHz	FieldFox microwave analyzer
N9916A	14 GHz	FieldFox microwave analyzer
N9917A	18 GHz	FieldFox microwave analyzer
N9918A	26.5 GHz	FieldFox microwave analyzer

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Model number	Description
Option 010	Vector network analyzer time domain
Option 030	Remote control capability
Option 112	QuickCal
Option 208	USB power sensor measurements versus frequency
Option 210	Vector network analyzer: Transmission and reflection
Option 211	Vector network analyzer: Full 2-port S-parameters
Option 212	Mixed mode S-parameters
Option 233	Spectrum analyzer
Option 235	Preamplifier
Option 236	Interference analyzer and spectrogram
Option 238	Spectrum analyzer time gating
Option 302	External USB power sensor support, (U2000 sensor sold separately)
Option 307	Built-in GPS (antenna sold separately)
Option 308	Vector voltmeter
Option 309	DC bias variable-voltage source
Option 310	Built-in power meter
Option 330	Pulse measurements (with external peak power sensor)

N9910X	FieldFox accessories: Adapters, antennas, cables, etc.
N9911X	Economical waveguide calibration components

Three-Year Warranty
www.keysight.com/find/ThreeYearWarranty
Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.

Keysight Assurance Plans
www.keysight.com/find/AssurancePlans
Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.

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