

Anritsu Field Master Pro™ MS2090A

The Ideal Instrument for Commercial Radar Maintenance



RF Spectrum Analysis to 54 GHz

The Field Master Pro MS2090A spectrum analyzer is available with frequency versions up to 54 GHz covering all common commercial radar frequencies. The receiver based architecture gives greater dynamic range than power sensor based measurements.

Real-Time Spectrum Analyzer

An optional RTSA with 110 MHz bandwidth provides real time display of pulsed and rotating radars.

Verify Pulsed Radar RF Performance

The Pulse Analyzer option includes built in measurement routines for all standard RF radar measurements simplifying measurement setup and providing a quick and easy-to-read display of results and traces. All measurements are made in compliance with IEEE Standards for Pulses and Related Waveforms (181-2011).

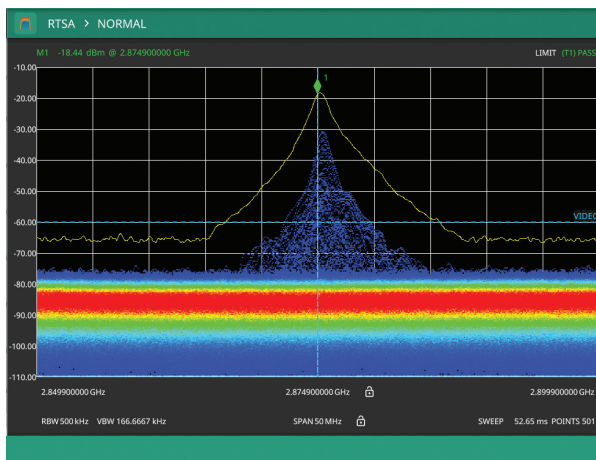
Designed for Field Use

The field portable handheld design of the Field Master Pro MS2090A with the performance of a benchtop instrument, > 2 hours battery life, and large 10 inch high resolution multi-touch display make this ideal for radar measurements in the toughest environments.

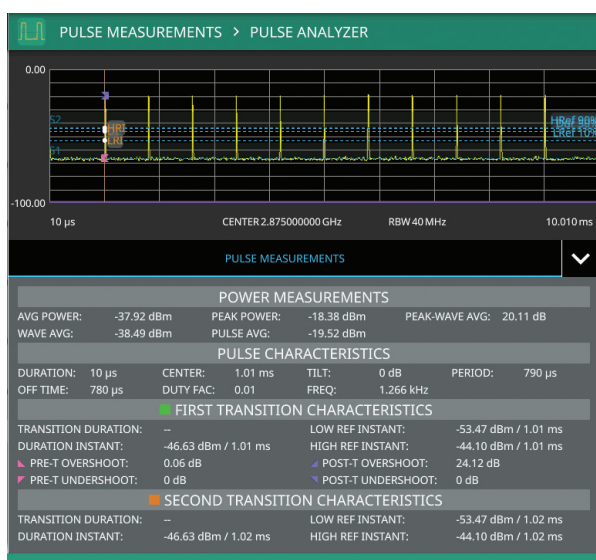


Key Features for Radar Measurements

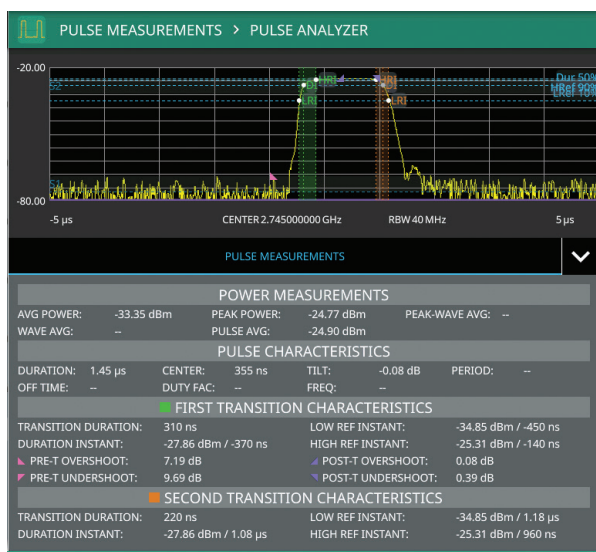
- 54 GHz frequency range
- 110 MHz RTSA (Option 199)
- Pulse Analyzer (Option 421)
- +30 dBm to -70 dBm measurement range
- 40 MHz RBW
- 30 ns pulse rise time measurements
- Single pulse analysis
 - Rise/Fall time
 - Pulse width, tilt, and average power
 - Pulse overshoot and undershoot
- Pulse train analysis
 - Pulse repetition frequency
 - Pulse off time and duty cycle



The RTSA option is ideal for displaying the transmit signal from pulsed and rotating radars. In the normal swept frequency mode, a spectrum analyzer is unable to detect short duration pulses which the real time spectrum analyzer displays. Use the trace max hold function in combination with the spectral density function to observe the pulse power changing in the case of rotating radars.



The Pulse Analyzer option activates a split screen display with pulse train and numeric results. The video level trigger ensures a stable display of the pulse train. Measurements are fully automated based on the pulse signal displayed, removing the need to manually position markers. All measurements are made in compliance with the IEEE standard (181-2011) for pulses and related waveforms. This removes measurement uncertainty and error due to ambiguous positioning of markers on pulse edges, ensuring that results are comparable with measurements made at all locations and by multiple users.



Adjusting the time span to capture a single pulse gives a detailed view of the amplitude and time cursors. This gives insight into the pulse shape and highlights any pulse overshoot or ringing on the pulse top.

A built in report generator includes screen captures, initiated from the screenshot icon. For automated applications, the instrument is SCPI compliant and supports Ethernet and USBTMC control interfaces.

A PC application is freely downloadable for remote control and display of the instrument screen, and to share results in real time from field locations.

For sales and service, contact your local sales office:
<https://www.anritsu.com>