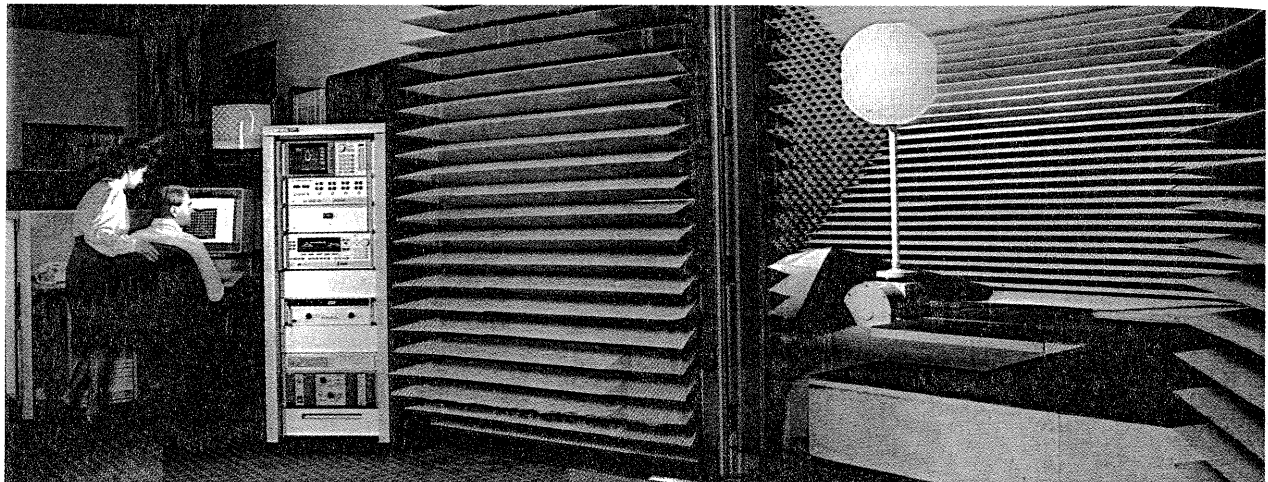


Antenna & Radar Cross-Section Measurements

340

Antenna/RCS Measurement Systems, 45 MHz to 110 GHz

HP 85301B
HP 85301C
HP 8530A



HP 85301B antenna/RCS measurement system in HP's compact test range

- Measurement speeds of up to 5000 points/second
- Fast multiple-channel measurements
- Excellent microwave performance and accuracy
- Manual or automated operation
- Built-in graphical display and analysis capability

6

HP 85301B/C Antenna, RCS Measurement Systems

Systems Designed for Productivity

Maintaining a competitive edge requires a measurement system with the greatest accuracy, reliability and productivity available. HP measurement systems provide complete solutions with the excellent performance, accuracy and features you need. HP also offers complete, dependable system support.

Far-Field Antenna Measurement Systems

A complete antenna measurement solution must have the flexibility to measure a variety of antennas, and it must have features and performance to test the most challenging and complex antennas. The HP 85301B/C antenna measurement systems meet these demanding requirements.

The HP 85301B system includes an HP 8530A microwave receiver and an HP 85310A distributed frequency converter with remote mixers. (The mixers can be located directly at the antenna under test.) This system provides the best microwave performance, measurement sensitivity and measurement flexibility available. It features broadband coaxial mixers that cover the 2 to 26.5 GHz frequency range and optional coaxial mixers that cover the 0.1 to 50 GHz frequency range. It has the ability to extend frequency coverage to 110 GHz by using the HP 85325A millimeter-wave subsystems.

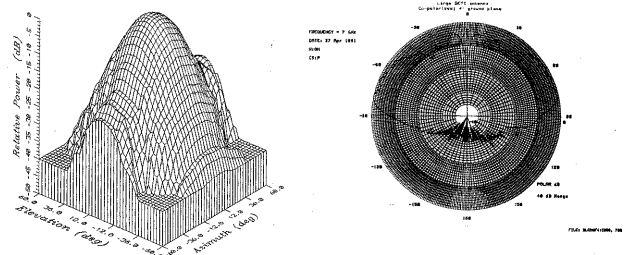
The HP 85301C antenna measurement system includes an HP 8530A microwave receiver with an HP 8511A or HP 8511B frequency converter. It features good microwave performance, an economical price, and broad frequency coverage from 45 MHz to 26.5 or 50 GHz.

Near-Field Antenna Measurement Systems

The HP 85301B/C antenna measurement system is also ideally suited for near-field antenna measurements. Its rapid data acquisition speeds, frequency agility and fast channel-switching capability make these systems ideal for the demanding requirements imposed by near-field measurement systems. HP can help you configure a near-field measurement system to meet your specific requirements.

Radar Cross-Section Measurement Systems

The HP 85301B/C measurement systems fulfill the demanding needs of RCS measurements. These systems feature broad frequency capability from 45 MHz to 110 GHz; a choice of frequency downconverters; excellent measurement sensitivity and accuracy; and fast frequency agility, data acquisition speeds and multiple-channel capability. HP instrumentation is meeting the challenges of RCS measurements in hundreds of RCS facilities worldwide.



Typical data available from the measurement systems

HP 8530A Microwave Receiver

The HP 8530A is a fast and accurate microwave receiver designed for both manual and automated antenna measurement and radar cross-section measurement applications. It features fast data acquisition speeds, excellent sensitivity, wide dynamic range, multiple test channels and fast frequency agility—without compromising measurement accuracy. The receiver provides broad frequency coverage from 45 MHz to 26.5 GHz, with extensions to 110 GHz.

Easy Upgrades for Existing Antenna Ranges

The HP 8530A microwave receiver can be a replacement receiver for existing antenna or RCS range receivers. With the HP 85370A antenna position encoder, the HP 8530A receiver can be interfaced to virtually any positioning system. Also, any HP 8510 network analyzer can be upgraded to an HP 8530A microwave receiver and still retain network analyzer capability. The HP 85395A/B/C kits provide an on-site upgrade of your existing network analyzer. Whether you upgrade one component or a complete system, HP provides the reliable instrumentation you need, and HP's upgrade paths protect your capital investment in your measurement systems.

Customized Systems to Meet Your Requirements

The HP 85301B/C measurement systems are customized to fit your individual requirements. HP offers a variety of options to expand the capabilities of the standard systems and also offers customization services to meet unique measurement requirements. HP has microwave systems engineers worldwide who understand your measurement needs and who will work with you to configure a measurement system that meets your specific requirements.

Ordering Information

HP 85301B Antenna/RCS Measurement System
HP 85301C Antenna/RCS Measurement System
HP 8530A Microwave Receiver

Price

P.O.A.¹
P.O.A.¹
P.O.A.¹

Please call your local HP sales representative for detailed information about these and other antenna products.

¹Price on application.