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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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HF Antennas

Active H-Field Measurement Antenna R&S®HM525



100 Hz to 30 MHz

Measurement of alternating magnetic
fields with extremely high sensitivity

Features

- ◆ Extremely high sensitivity
- ◆ Wide dynamic range
- ◆ Wide frequency range
- ◆ Compact design
- ◆ Selftest possible
- ◆ Remote-control capability (optional)



Brief description

The Measurement Antenna R&S®HM525 is a loop antenna. The voltage at its output is proportional to the amplitude of the alternating magnetic field that is present.

Overview measurements are performed in the broadband mode, which covers the entire frequency range from 100 Hz to 30 MHz. To obtain maximum sensitivity, the antenna can be locally or remotely switched to the subrange mode. In this case the frequency range is divided into five subranges with different amplifier concepts in the active antenna part.

For a function check, the antenna can be operated in the test mode. The antenna is individually calibrated by comparison and comes with a calibration report.

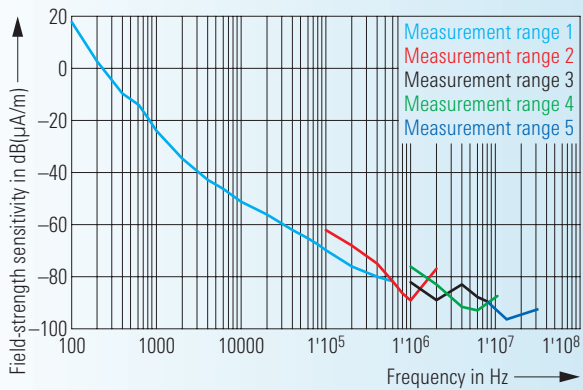


Specifications

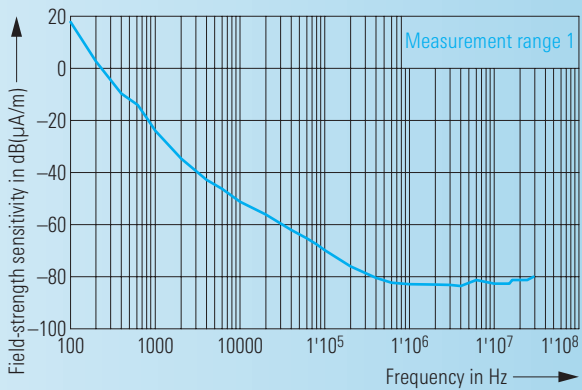
Frequency range		Power supply	
Broadband mode	100 Hz to 30 MHz	RF connector	18 V ±0.5 V DC (max. 0.7 A)
Subrange mode		Test signal connector	N female
Range 1	100 kHz to 600 kHz	MTBF	N female
Range 2	600 kHz to 1.2 MHz		>300 000 h
Range 3	1.2 MHz to 2.6 MHz	Operating	
Range 4	2.6 MHz to 8 MHz	temperature range	–10 °C to +55 °C
Range 5	8 MHz to 30 MHz	Dimensions (H × W × D)	approx. 730 mm × 640 mm × 400 mm (without support)
Input impedance	50 Ω	Weight	approx. 10 kg
Field-strength sensitivity	see diagram	Class of application	laboratory
Calibration	by comparison (as standard)		

Ordering information

Active H-Field			
Measurement Antenna	R&S® HM 525	4031.0508.02	
Recommended extras			
Tripod	R&S® HM 525Z1	4036.1402.02	
Control Unit	R&S® GS 525	4035.5004.02	
Set of Fiber-Optic Cables	R&S® GS 525K1	4035.5604.02	
Junction Unit	R&S® GX 525	4015.9256.02	
Cabinet for Junction Unit	R&S® KK 524	4015.9004.02	
Integration	R&S® AM 524-K	4015.7024.02	



Field-strength sensitivity; bandwidth 1 Hz; S/N ratio 0 dB (measurement ranges 1 to 5 active)



Field-strength sensitivity in broadband mode