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## Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

## 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.

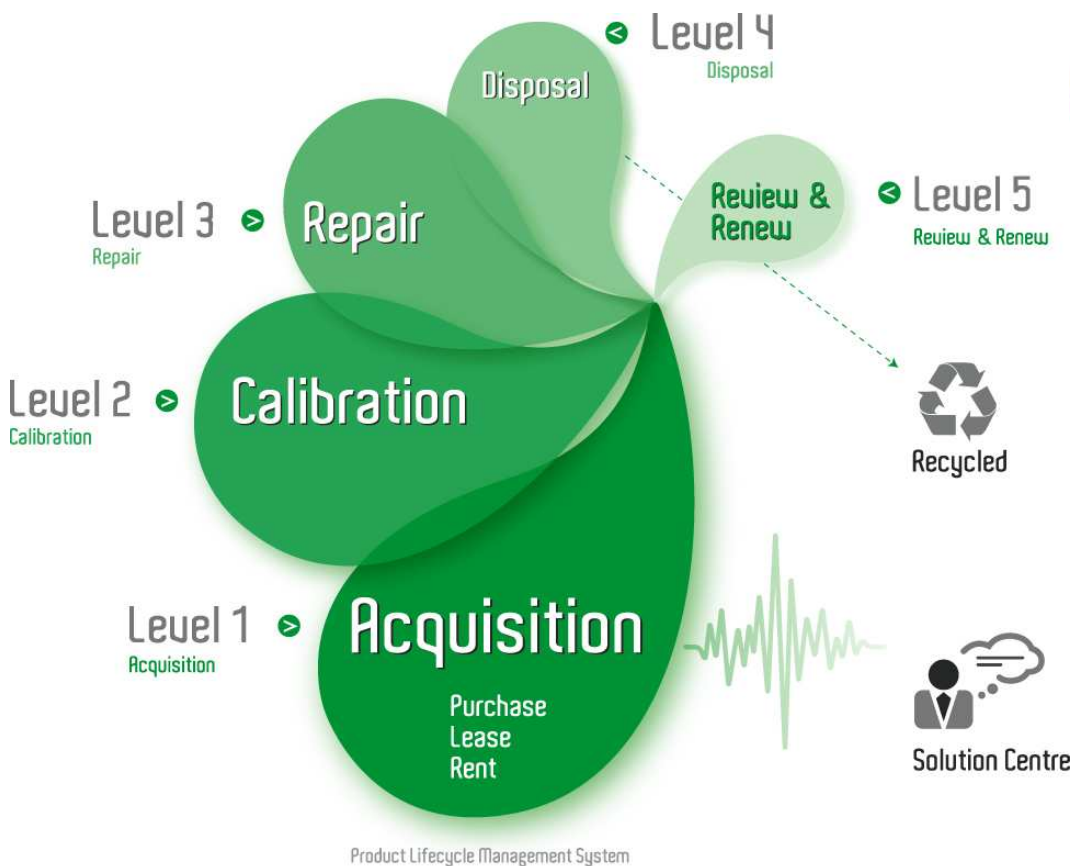
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Product Lifecycle Management System

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Version  
02.00

February  
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## R&S® HM020 Triple-Loop Antenna

Fully automatic measurement of magnetic field strength in the frequency range 9 kHz to 30 MHz

- ◆ Measurement method in line with CISPR/A (Secretariat) 103, 104, 105 and CISPR/F (Central Office) 66, 67
- ◆ More sensitive, faster and cheaper than previous measurement methods in line with CISPR Publication 16
- ◆ Mobile loop system, foldable in one plane
- ◆ Wooden pedestal for 100 kg load available (permitting antenna loops to be moved as required)
- ◆ Calibration certificate supplied with antenna



**ROHDE & SCHWARZ**

## Brief description

The R&S® HM020 allows fully automatic measurements of the magnetic field strength in the X, Y and Z planes of a centrally placed EUT.

The antenna operates in accordance with the van Veen/ Bergervoet principle. Measurements are fully automatic and controlled by a test receiver or controller.

## Specifications

Frequency range	9 kHz to 30 MHz
Loop planes	switchable between X, Y and Z
Input impedance	50 Ω
Antenna factor of current probe	0 dB, referenced to 1 S (in line with CISPR/A (Secretariat) 103, 104, 105)
RF connector	N female
Control connector	9-contact, D-Sub, female
Ground connector	terminal strip for copper foil
MTBF	>1 000 000 h
Operating temperature range	-10 °C to +55 °C

### General data

Dimensions (W × H × D)	
Loops set up	approx. 2.49 m × 2.57 m <sup>1)</sup> × 2.07 m (98.03 in × 101.18 in × 81.5 in)
Loops in transport crate	approx. 2.68 m × 2.32 m × 0.57 m (105.51 in × 91.34 in × 22.44 in)
Basic pedestal (load capacity 100 kg/220.5 lb)	approx. 0.9 m × 1.0 m × 0.9 m (35.43 in × 39.37 in × 35.43 in)
Adapter pedestal (load capacity 100 kg/220.5 lb)	approx. 0.9 m × 0.5 m (max.) × 0.9 m (35.43 in × 19.69 in (max.) × 35.43 in)
Weight	
Loop system	approx. 45 kg (99.2 lb)
Basic pedestal	approx. 40 kg (88.2 lb)
Adapter pedestal	approx. 30 kg (66.1 lb)

## Ordering information

Designation	Type	Order No.
Triple-Loop Antenna	R&S® HM020	4023.4508.02
<b>Recommended extras</b>		
Basic Pedestal	R&S® HM020Z1	4023.5504.02
Adapter Pedestal	R&S® HM020Z2	4023.5604.02
Calibration Dipole	R&S® HM020Z3	4023.5704.02
Control Unit (only required for receivers without user port)	R&S® BG020	4024.1002.02



*R&S® HM020 set up for measurement with antenna height reduced*

<sup>1)</sup> Height reduced to 2.09 m for operation in low-ceiling rooms.



**ROHDE & SCHWARZ**

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