

# EMC Test Antennas

## Field-strength-measurement Antennas

20 to 1300 MHz

HK 116

HL 223

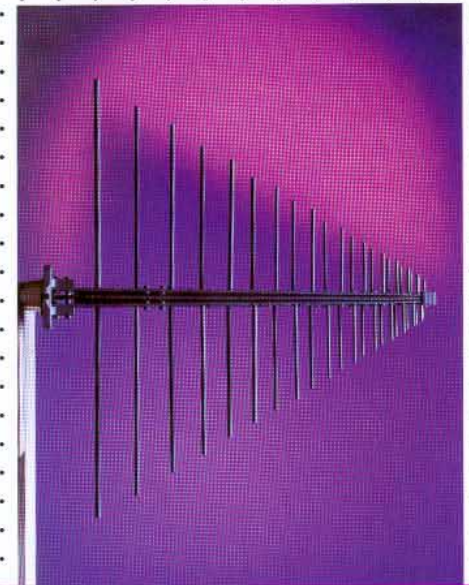
HL 023 A1

Meets requirements of:  
CISPR · CCIR · VDE · MIL 461 · VG · FCC

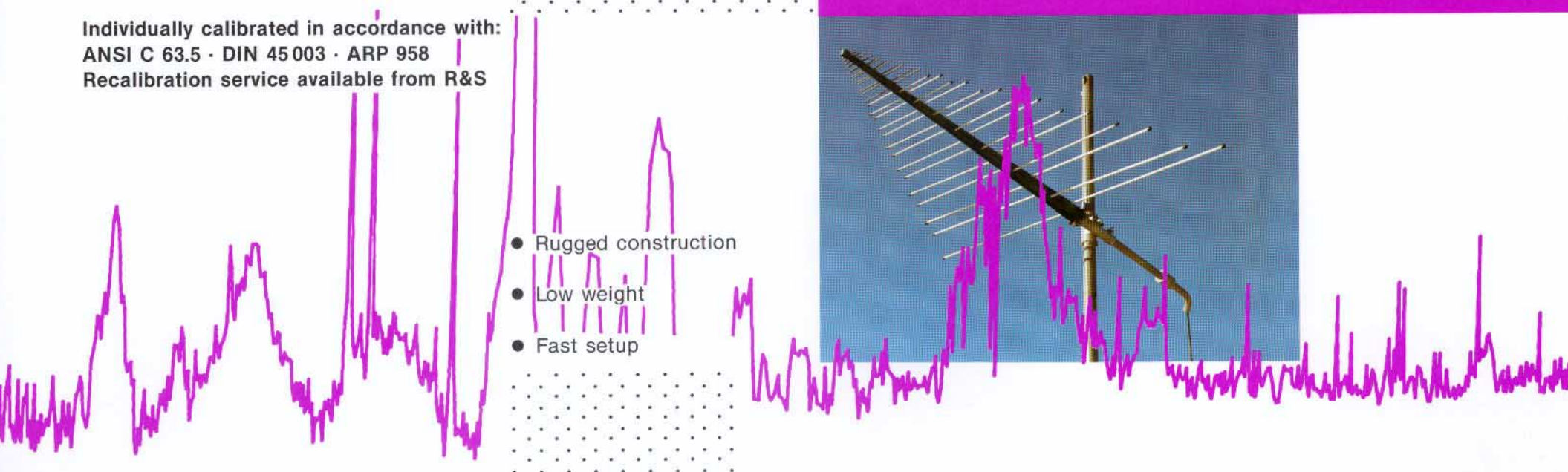
Individually calibrated in accordance with:  
ANSI C 63.5 · DIN 45 003 · ARP 958  
Recalibration service available from R&S



**ROHDE & SCHWARZ**



- Rugged construction
- Low weight
- Fast setup





# EMC Test Antennas

## Field-strength-measurement Antennas

HK 116  
HL 223  
HL 023 A1

The **linear-polarized antennas HK 116, HL 223 and HL 023 A1** are designed for general-purpose, wideband applications, both transmit and receive, over a frequency range of 20 to 1300 MHz. Since they meet relevant civil and military standards, the antennas can be used for EMI, EMS and other field-strength measurements. Rohde & Schwarz provides a recalibration service.

For transportation, the Log-periodic Antenna HL 023 A1 can be disassembled and fitted into the carrying bag supplied. For transporting and storing the Log-periodic Antenna HL 223, an aluminium case is available.

The Biconical Antenna HK 116 consists of two screw-on dipole elements and a support bar, into which the antenna transformer is integrated.

All the antennas require very little time to set up. The HK 116 and the HL 223 are provided with a tripod adapter; for the antenna HL 023 A1, a mast with adjustable height is available.

### Specifications

	HK 116	HL 223	HL 023 A1
Frequency range	20 to 300 MHz	200 to 1300 MHz	80 to 1300 MHz
Polarization	linear	linear	linear
Impedance	50 Ω	50 Ω	50 Ω
Correction factor	8 to 21 dB	10 to 26 dB	4 to 25 dB
RF connector	N-type female	N-type female	N-type female
Max. input power	20 W, typ.	500 W	700 W CW at 80 MHz 650 W CW at 100 MHz 320 W CW at 500 MHz 250 W CW at 1000 MHz 230 W CW at 1300 MHz

### General

Dimensions			
Length	720 mm	710 mm	1670 mm
Width	1380 mm	765 mm	1960 mm
Weight	3 kg	2 kg	5 kg
MTBF	>16 <sup>8</sup> hours	>16 <sup>8</sup> hours	>16 <sup>8</sup> hours

### Ordering information

#### Order designations

Biconical Antenna	HK 116	4000.7752.02
Log-periodic Antenna	HL 223	4001.5501.02
Log-periodic Antenna	HL 023 A1	0577.8017.02

#### Recommended accessories

Antenna Case	HL 223-Z1	4001.6189.02
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