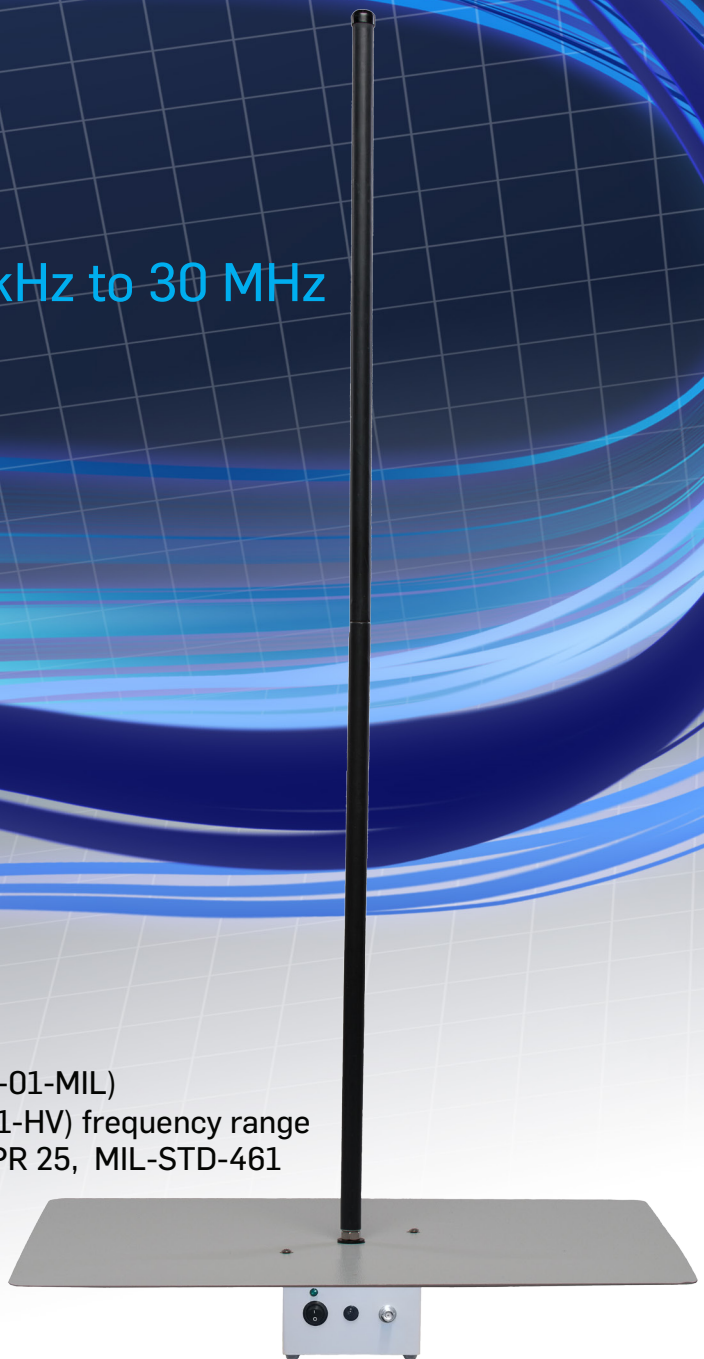


# RA-01

Active rod antenna 9 kHz to 30 MHz

## Main Features

- 9 kHz to 30 MHz (RA-01 or RA-01-MIL) or 150 kHz to 30 MHz (RA-01-HV) frequency range
- CISPR 16-1-4, CISPR 12, CISPR 25, MIL-STD-461 and DO-160 fully compliant
- Built-in wide band amplifier
- Excellent flatness
- Individual calibration
- High rejection to 50 Hz
- Rechargeable Ni-MH battery for extra longevity
- Easy assembly
- Tripod mounting adapter
- Ruggedized aluminium case and rod, stainless steel counterpoise



RA-01 Rod Antenna is an active monopole antenna built to CISPR 16-1-4 specifications and perfect for RF electric field measurements in a wide variety of EMC applications. The RA-01-HV model is ruggedized to be able to withstand 50 Hz electric fields as high as 8 kV/m, and is therefore best suited to performing interference measurements in close proximity to high-voltage power lines. The RA-01-MIL is a 41" monopole antenna as per the most common military and aerospace specifications.

RA-01 can be used in conjunction with any PMM Receiver or Spectrum Analyzer, although its ideal companion for on-site measurements is the EMI Receiver Unit 9010F, portable and fully compliant with CISPR-16-1-1.

# RA-01

## Active Rod Antenna 9 kHz to 30 MHz

SPECIFICATIONS	RA-01 and RA-01-MIL	RA-01-HV
Frequency range	9 kHz to 30 MHz	150 kHz to 30 MHz
Output Impedance	50 $\Omega$	
Output connector	BNC female	
Internal battery	Ni-MH Rechargeable 7,2 V - 720 mAh	
Operating time	> 24 hours	
Recharging time	6 hours	
Tripod mounting	Threaded insert UNC 1/4"	
Antenna factor	+10 dB/m nominal	
Operating temperature	-10 °C to 60 °C	
Operating humidity	0 to 98% RH (without condensation)	
Storage temperature	-30 °C to 75 °C	
Dimensions and weights (W x H x D)		
Box	133 x 115 x 133 mm	0,90 kg
Counterpoise	600 x 1,5 x 600 mm	4,15 kg
Rod RA-01 and RA-01-HV	$\varnothing$ 19 x 1000 mm	0,45 kg
Rod RA-01-MIL	$\varnothing$ 19 x 1041 mm	0,45 kg
TOTAL (w rod ext.)	600 x 1156 x 600 mm	5,95 kg



### Ordering Information:

Rod Antenna RA-01 with individual calibration report  
Rod Antenna RA-01-HV with individual calibration report  
Rod Antenna RA-01-MIL with individual calibration report  
Includes: 600x600 mm counterpoise, universal AC battery charger,  
operating manual, carrying case

### Optional accessories:

TR-01 60-180 cm wooden extendable tripod

## Related products and services

### Receivers

- 7010/00: EMI receiver 150 kHz to 1 GHz
- 7010/01: EMI receiver 9 kHz to 1 GHz
- 7010/02: EMI receiver 9 kHz to 30 MHz
- 7010/03: EMI receiver 9 kHz to 3 GHz
- 9010: EMI receiver 10 Hz to 30 MHz
- 9010F: EMI receiver 10 Hz to 30 MHz
- 9010/03P: EMI receiver 10 Hz to 300 MHz
- 9010/30P: EMI receiver 10 Hz to 3 GHz
- 9010/60P: EMI receiver 10 Hz to 6 GHz
- 9030: EMI Receiver 30 MHz to 3 GHz
- 9060: EMI Receiver 30 MHz to 6 GHz
- 9180: EMI Receiver 6 GHz to 18 GHz
- FR4003: Field Receiver 9 KHz to 30 MHz

### Antennas

- BC-01: Biconical Antenna 30 to 200 MHz
- DR-01: Double-ridged horn Antenna 6 to 18 GHz
- LP-02: Log Periodic Antenna 200 MHz to 3 GHz
- LP-03: Log Periodic Antenna 800 MHz to 6 GHz
- LP-04: Log Periodic Antenna 200 MHz to 6 GHz
- TR-01: 60-180 cm wooden extendable tripod
- VDH-01: Van der Hoofden test-head 20 kHz to 10 MHz
- Antenna Set AS-02 (BC01+LP02+TR01)
- Antenna Set AS-03 (BC01+LP02+LP03+TR01)
- Antenna Set AS-04 (BC01+LP04+TR01)
- Antenna Set AS-05 (BC01+LP04+DR01+TR01)
- RA-01: Rod Antenna 9 kHz to 30 MHz
- RA-01-MIL: Rod Antenna 9 kHz to 30 MHz
- RA-01-HV: Rod Antenna 150 kHz to 30 MHz

### Calibrations services

- ANSI 63.5 Antenna Factor
- SAE ARP 958-D
- Free-Space Antenna Factor



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