

ACTIVE RECEIVE ANTENNA

ARA

The ideal antenna for EMC testing in restricted spaces

- ▼ Small size particularly ideal for use in chambers
- ▼ High sensitivity, better than typical conventional antennas
- ▼ Can be used with any EMC analyser



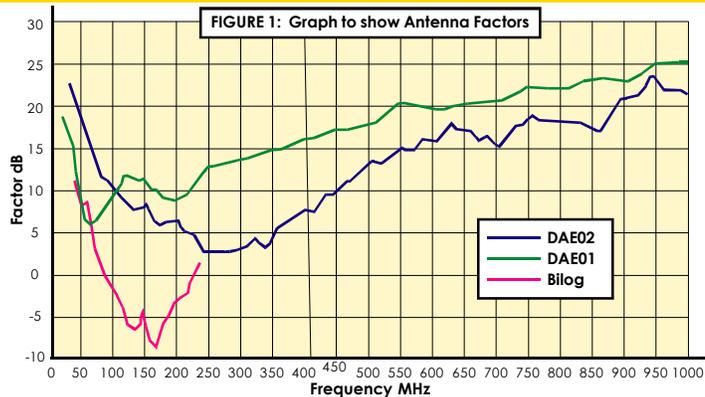
The Active Receive Antenna has been designed as a compact emissions antenna. The small size makes it particularly suitable for use in anechoic chambers, however it can also be used on an Open Area Test Site (OATS).

The unit is powered from a single PP3 battery. A green LED indicates that the antenna is active, a red LED indicates that the battery is low and should be recharged or replaced. There is also an external DC option where the DC is supplied via the RF cable.

There are two sets of Dipole Antenna Elements (DAE) which can be used. The unit is supplied with one set as standard (DAE01). For higher sensitivity at the low frequencies DAE02 should be used.

Full antenna factor data is included with each ARA.

SPECIFICATION



ELECTRICAL

Frequency range 30MHz to 1GHz
 Output VSWR 1.5:1
 Antenna factor See figure 1
 Sensitivity See figure 2
 Dynamic range 90dB

POWER SUPPLY

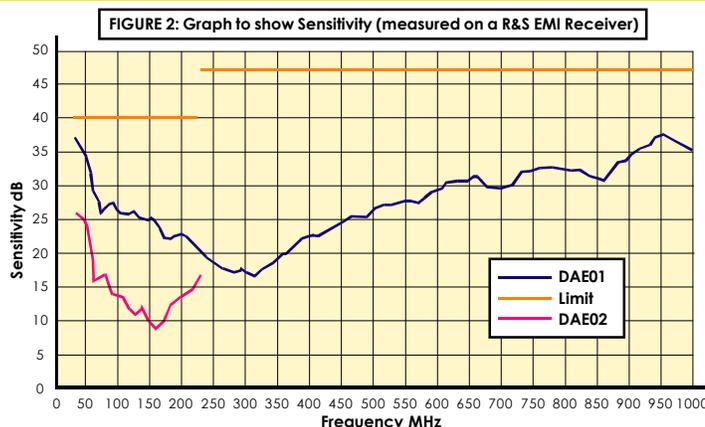
Current 70mA
 External DC 9 to 16V
 PP3 9V battery NiMH 2 hours
 Alkaline 4 hours (typ)

MECHANICAL

Dimensions
 Length Body: 150mm
 Connector: 168mm
 Width Body: 34mm
 DAE01: 234mm
 DAE02: 568mm
 Depth 34mm
 Weight 385g
 Connector BNC female

ORDERING INFORMATION

- ARAP01** ARA01, 2 x DAE01 & NiMH PP3 battery
- EDC01** External DC connection box
- DAE02** Long dipole antenna element
- TMA01** Tripod mast adaptor
- MST01** Portable tripod mast (adjustable 1-2m high)



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