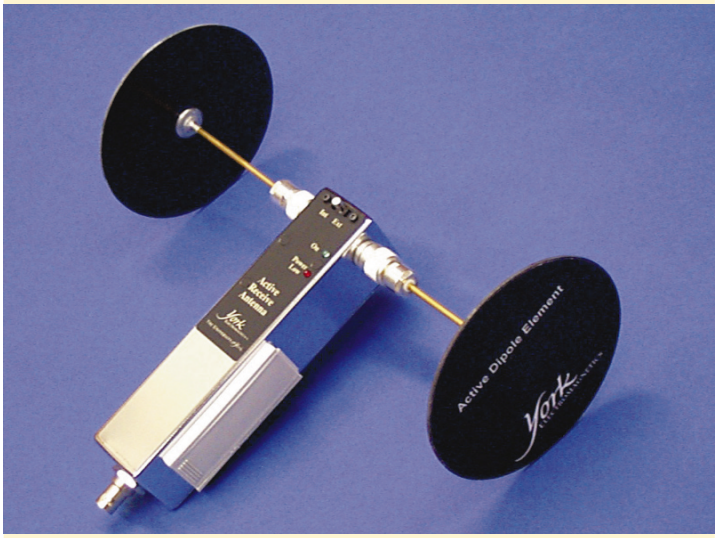
ACTIVE RECEIVE ANTENNA

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).

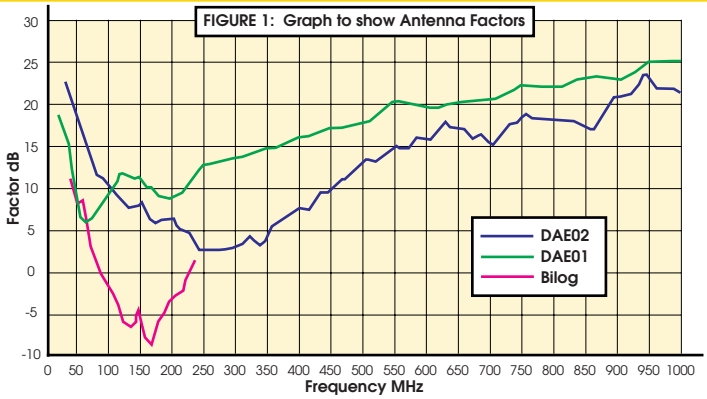
The unit is powered from a single PP3 battery. A green LED indicates that the antenna is active, a red LED indicates that the battery is low and should be recharged or replaced. There is also an external DC option where the DC is supplied via the RF cable.

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

FIGURE 1: Graph to show Antenna Factors



ELECTRICAL

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

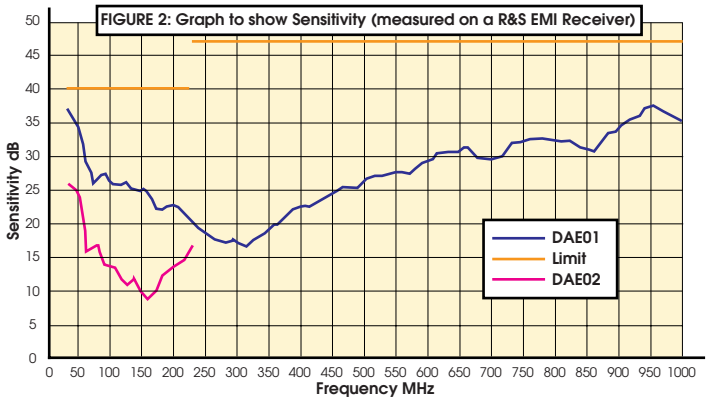
POWER SUPPLY

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

FIGURE 2: Graph to show Sensitivity (measured on a R&S EMI Receiver)



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)

LAPLACE INSTRUMENTS LIMITED
Tudor House, Grammar School Road
North Walsham, Norfolk NR28 9JH. UK
Tel: +44 (0)1692 500 777
Fax: +44 (0)1692 406 177
Web site: www.laplaceinstruments.com
E-mail: tech@laplace.co.uk