

 PREVIOUSLY KNOWN AS THE AIS-GPA

ANTENNAS & AERIALS

AV200 BASE STATION ANTENNA WITH GROUND PLANE

SKU: COM-0020



FEATURES

- For VHF / AIS Land and Marine Service
- Ideal for monitoring of AIS sea traffic
- Omnidirectional
- Rugged and corrosion resistant
- Supplied complete with pole mount bracket & 10 m cable

OVERVIEW

A ground plane base station antenna for land and marine service with a tunable frequency range of 135 -175 MHz. The matching coil is DC fed for protection from static discharges. The antenna is made from non-corrosive aluminium and assembled to a strong die-cast base.

APPLICATIONS

- For shoreside monitoring of shipping by Government bodies
- Managing traffic at local port approaches
- Locating ships for local tug/supply operators
- Analysing shipping in specific areas
- Monitoring fishing zones
- Feeding data to AIS vessel tracking websites

RELATED PRODUCTS

AV100 - Stainless Steel Whip Antenna
AV300 - Fibreglass VHF Antenna
AV400 - Commercial Antenna for AIS
AG100 - GPS Antenna



PHYSICAL

Weight:	570 g approx. Shipping weight: 900 g approx.
Dimensions:	L 1480 mm; radial lengths 530 mm (approx.)
Mounting:	To mast Ø 25 - 30 mm
Construction:	Aluminium, copper, nylon
Wind Loading:	28 N @ 150 Km/h
Wind Surface Area:	0.02 m ²

ELECTRICAL

Type:	5/8 λ ground plane
Antenna Impedance:	50 Ω
Radiation (H-plane):	360° omnidirectional
Radiation (E-plane):	Beamwidth @ -3 dB = 67°
Radiation angle:	18°
Polarization:	Linear vertical
Bandwidth @ SWR:	≤2: see diagram
SWR @ res. freq.:	See diagrams
Max. Power:	(CW) @ 30°C: 200 Watts
Grounding Protection:	All metal part are DC-grounded; the inner conductor shows a DC-short
Cable:	10m cable supplied
Connections:	UHF female, gold plated central pin

OPERATIONAL

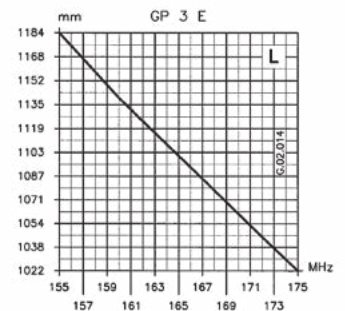
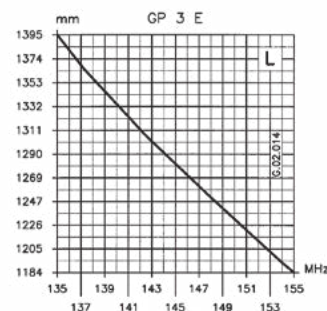
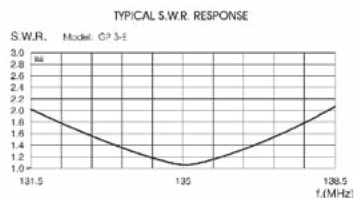
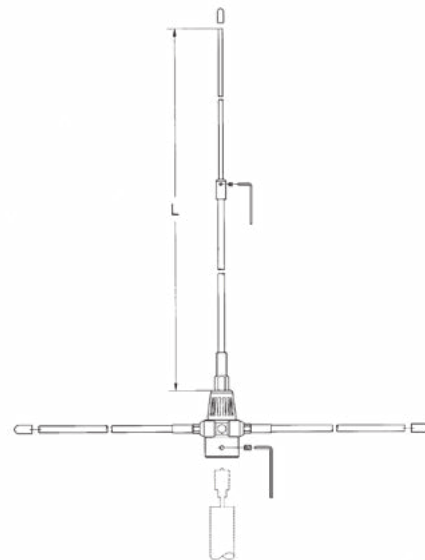
Frequency range:	Tunable 135 - 175 MHz (by adjusting antenna length)
Gain:	1.5 dBd - 3.65 dBi

ENVIRONMENTAL

IP Rating:	IP67
Operating Temp:	-15°C to +55°C
Compass:	Safe Distance 50 cm

ADDITIONAL

- Supplied complete with pole mounting bracket & 10 m cable
- Supplied with centre element length L pre-adjusted for AIS frequencies
- Supplied with user instructions



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