

# VHF Adjustable Ground Plane Antennas

70-175 MHz

GP Series



The GP Series is a range of omnidirectional unity gain adjustable ground plane antennas ideal for local area coverage when a high gain antenna is not required or justified. The broad vertical beamwidth offers excellent null fill for consistent signal coverage. GP Series antennas are easily tuned in the field by adjusting the position of the ground plane elements.

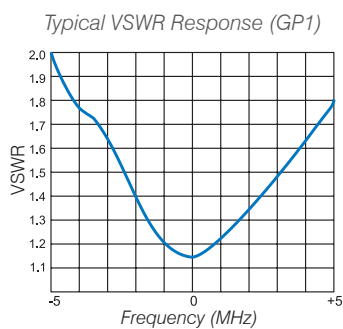
Electrically, the GP Series antenna is a quarter wave radiating element with the radials acting as a counterpoise. These radials are of one-piece construction and utilise a unique single bolt clamping design. The antennas are DC grounded for superior lightning protection and the reduction of precipitation static noise.



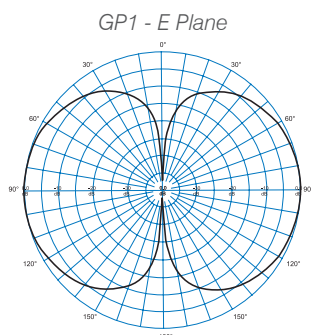
## Features:

- Easily field tuned by adjusting the position of the radials
- Lightweight and easy to mount
- Broad vertical beamwidth for excellent null fill
- Compact - Shipped disassembled for ease of handling

## Electrical



Model Number	GP1	GP3	GP2
Nominal Gain <i>dBi</i> ( <i>dBd</i> )	2 (Unity)		
Frequency <i>MHz</i>	70 - 85	118 - 136	148 - 175
Tuned Bandwidth <i>MHz</i>	5	10	15
VSWR (Return Loss)	<1.5 :1 (14dB)		
Nominal Impedance $\Omega$	50		
Vertical Beamwidth <sup>o</sup>	110	75	
Horizontal Beamwidth <sup>o</sup>	Omni +/-0.5dB		
Input Power <i>W</i>	200		



## Mechanical

Model Number	GP1	GP3	GP2	
Construction	Heavy duty aluminium radiating element encased in a PVC radome			
Length <i>m</i>	1.8	1.5	1.3	
Weight <i>kg</i>	3.0	3.0	2.0	
Termination	N female with 0.5m RG213 cable tail			
Mounting Area	500mm x 40mm diam. aluminium			
Suggested Clamps	2 x UB1 or 2 x UC1			
Projected Area <i>cm</i> <sup>2</sup>	No ice	1752	1246	988
	With ice	3349	2160	1730
Wind Load (Thrust) @ 160km/h <i>N</i>	208	148	117	
Torque @160 km/h <i>Nm</i>	67	33	11	