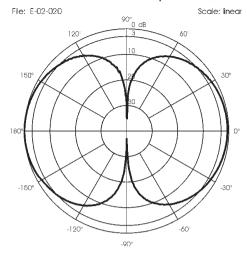
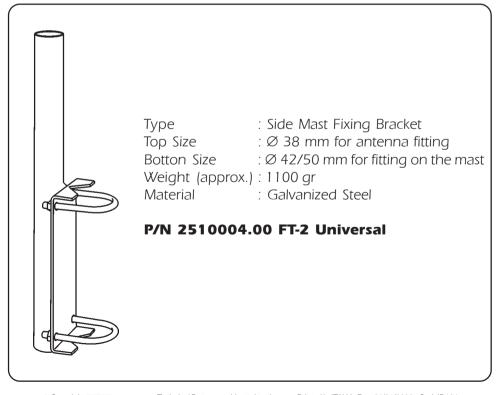
TYPICAL RADIATION PATTERN in E-plane at 122 MHz



OPTIONAL FT-2 FIXING BRACKET



GP 87-108 LB FM RADIO BAND GP 108-136 LB VHF AIRCRAFT BAND



Installation Manual

DESCRIPTION

 $1/4~\lambda$ Ground Plane wide-band antenna for base station service. It is made of aluminium and hiquality materials to get the best efficiency and robustness. Its radial whip is earthed to be protected against the static discharges. GP 87-108 LB is developed for FM radio band and GP 108-136 LB is particularly recommended for the aereonautic band service.

SPECIFICATIONS

Electrical Data

Type : $1/4 \lambda$ Folded Ground Plane

Frequency Range

GP 87-108 LB : RADIO band: 87-108 MHz at V.S.W.R. ≤ 2.5 :1

GP 108-136 LB : VHF AIR. band: Rx 108-136 MHz; Tx 118-136 at V.S.W.R. ≤ 2:1

Radiation angle deg. : 0°

Polarization : Vertical

Gain : 0 dBd - 2.15 dBi

Bandwidth at V.S.W.R. 2:1

GP 108-136 LB : 22 MHz V.S.W.R. at res. freq. : ≤1.2 : 1 Max Power : 1000 Watts

Feed System / Position : Direct DC-Ground / Center

Connector

GP 87-108 / 108-136 LB-U : UHF Female GP 87-108 / 108-136 LB-N : N Female

Mechanical Data

Materials : Anodized Aluminium, Nylon, Stainless Steel

Wind Load / Resistance

GP 87-108 LB : 67 N at 150 Km/h / 160 Km/h GP 108-136 LB : 56 N at 150 Km/h / 160 Km/h

Wind Surface

GP 87-108 LB : 0.06 m² GP 108-136 LB : 0.05 m²

Height (approx.)

GP 87-108 LB : 1190 mm GP 108-136 LB : 890 mm

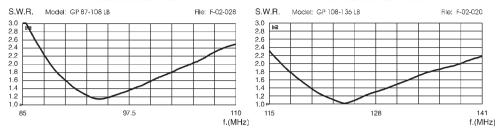
Weight (approx.)

GP 87-108 LB : 1500 gr GP 108-136 LB : 1310 gr Mounting Mast : Ø 36-40 mm

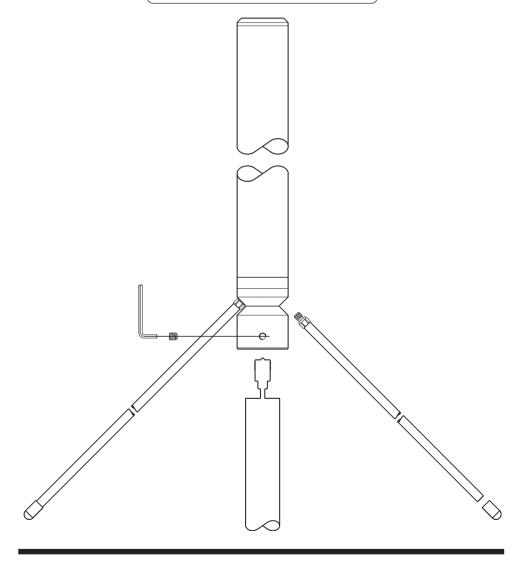
ID124

TYPICAL S.W.R. RESPONSE

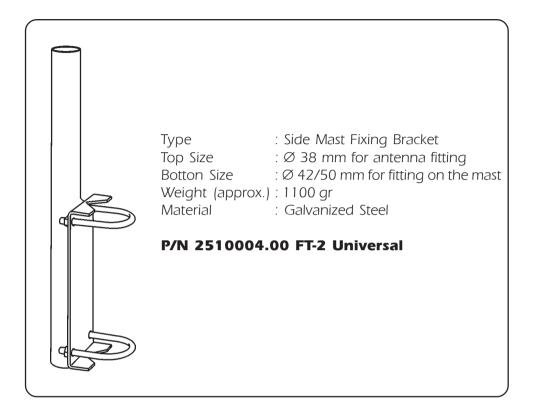
TYPICAL S.W.R. RESPONSE



MOUNTING INSTRUCTIONS



OPTIONAL FT-2 FIXING BRACKET



Model GP 160 LB

VHF Base Station Antenna 145-175 MHz



Installation Manual

DESCRIPTION

 $1/4~\lambda$ wide-band antenna for base station service covering the frequency range of 145-175 MHz. It as been developped according to the most modern technologies to assure a perfect protection against the worst atmospheric climates and to get the best performance. It is entirely made of aluminium to assure strength and robustness and its radial whip is earthed. Its 30 MHz bandwidth makes it particularly recommended for relay stations or two-party systems.

SPECIFICATIONS

Electrical Data

Type : 1/4 λ Folded Ground Plane Frequency Range : 145-175 MHz at V.S.W.R.≤ 2:1

Radiation angle deg. : 0°
Polarization : Vertical

Gain : 0 dBd - 2.15 dBi

Bandwidth at V.S.W.R. 2:1 : 30 MHz V.S.W.R. at res. freq. : ≤1.2 : 1 Max Power : 1000 Watts

Feed System / Posistion : Direct DC-Ground / Center

Connector

ID064

GP 160 LB - U : UHF Female, gold plated central pin

GP 160 LB - N : N Female, gold plated central pin and teflon insulator

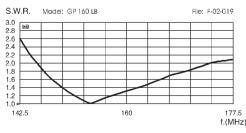
Mechanical Data

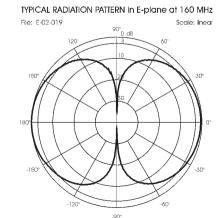
Materials : Anodized Aluminium, Nylon, Stainless Steel

Wind Load / Resistance : 43 N at 150 Km/h / 160 Km/h

Wind Surface : 0.04 m²
Height (approx.) : 700 mm
Weight (approx.) : 1150 gr
Mounting Mast : Ø 36-40 mm







MOUNTING INSTRUCTIONS

