

## 5/8 λ Ground-Plane Base Station and Marine Antenna for the 2 m Band

### DESCRIPTION

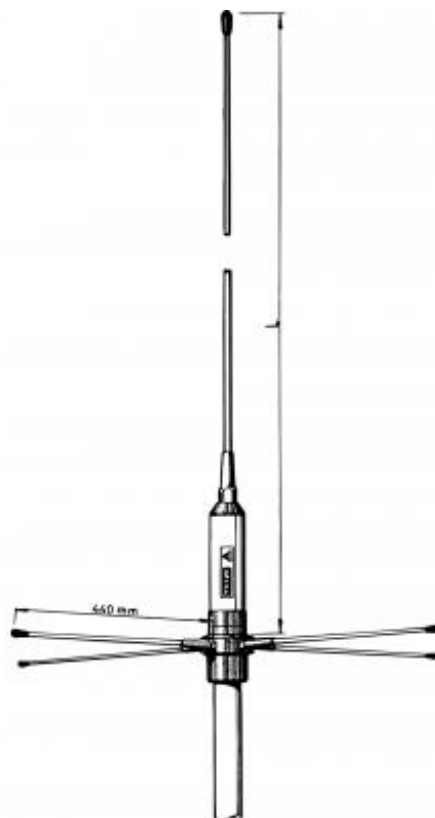
- The antenna is tunable (by cutting the radiator) within the frequency band 145...175 MHz.
- GP 160 5/8 is a very sturdy construction which can stand mounting under extreme conditions. It is well suited for mounting on fishing vessels etc. and a good choice for base stations in the land mobile field.
- GP 160 5/8 is a 1 dBd, vertically polarised omnidirectional base station and marine antenna.
- The antenna is delivered adjusted to 145 MHz unless otherwise specified. It may, however, be delivered preadjusted for the maritime VHF band provided this is stated on the purchase order.
- GP 160 5/8 is DC-grounded and antistatically protected as all metal parts are ground-connected. Consequently, the antenna shows a DC-short across the coaxial cable.
- The materials used are glass fibre and chromed brass.

### SPECIFICATIONS

| Electrical              |  |
|-------------------------|--|
| Model                   | GP 160 5/8   |
| Frequency               | Tunable by cutting within: 145 - 175 MHz                 |
| Antenna Type            | Ground-plane   |
| Max. Input Power        | 500 W  |
| Polarisation            | Vertical   |
| Pattern Type            | Omnidirectional  |
| 3 dB Beamwidth, H-Plane | Omnidirectional  |
| Impedance               | 50 Ω   |
| Gain                    | 1 dBd (3.2 dBi)  |
| Bandwidth               | 5 - 6 MHz dep. of the cf. freq. (VSWR = 2)               |
| Antistatic Protection   | All metal parts DC-grounded (Connector shows a DC-short) |

| Mechanical         |   |
|--------------------|---|
| Connection(s)      | UHF female (fitting PL 259)   |
| Materials          | Shroud : Polyurethane-coated glass fibre<br>Metal parts: Bright chromed brass |
| Colour             | White / bright chrome   |
| Wind Area          | 0.028 sq. m / 0.30 sq. ft   |
| Wind Load          | 35 N (160km/h)  |
| Dia. At Top End    | 5 mm / 0.20 in.   |
| Dia. At Bottom End | 8 mm / 0.31 in.   |
| Height             | 1340 mm / 52.76 in.   |
| Weight             | 1.3 kg / 2.87 lb.   |
| Mounting           | On 27 mm dia. mast tube (3/4" water pipe)                                     |

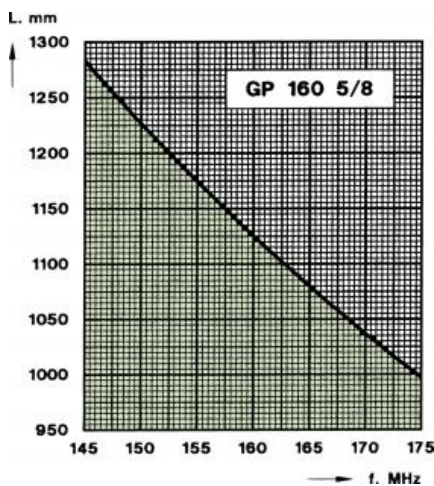
| Environmental               |                  |
|-----------------------------|------------------|
| Operating Temperature Range | -30 °C to +70 °C |



### ORDERING

| Model      | Product No. |
|------------|-------------|
| GP 160 5/8 | 100000108   |

### CUTTING DIAGRAM



### PLEASE NOTE

The length of the radiator is measured from the upper edge of the head, right above the mounting point of the radials, to the top end of the antenna element. The radials should not be cut.