

Self-Supporting Wide-Band Receiving Whip Antenna for
the LF, MF and HF Bands.

DESCRIPTION

- This antenna provides a very efficient means of establishing a universal, wide-band 50 Ω receiving aerial system for the complete LF, MF and HF bands in one unit.
- The antenna consists of a high-capacitance, 5 m long glass fibre antenna element with a frequency-compensated wide-band impedance transformer mounted in the bottom end.
- The transformer converts the widely varying antenna impedance to a constant 50 Ω, making it possible to use length-independent, shielded, standard RG 58 C/U or RG 213/U as downlead cable to the 50 Ω receiver.
- The antenna is protected against noise pick-up running on the outside of the downlead cable, and it is protected against static by DC-grounding.
- Moreover, the 50 Ω receiver and the matching transformer itself are protected against RF overload and violent discharges by an air spark gap (approx. 1 kV), a gas filled spark gap (90 V) and a resistance network.
- To prevent electrolytical corrosion, the coaxial cable braid is only capacitively coupled to the earth connection.
- Installation is easily carried out by means of the two hot galvanized mast clamps. The antenna has very small weight and minimum wind surface, thereby requiring only a minimum of mast strength.
- The glass fibre construction gives a stiff and self-supporting structure with extremely good resistance against the corrosive marine environment with UV-radiation, salt, exhaust gases and ice formation as primary factors.
- RX 5000 is a maintenance-free and very reliable construction.

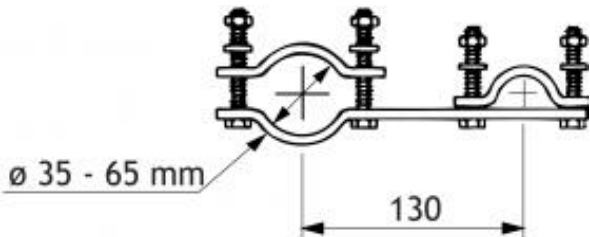


ORDERING

| Model | Product No. |
|---------|-------------|
| RX 5000 | 110000111 |

ADDITIONAL DATA

CLAMP DETAILS



SPECIFICATIONS

| Electrical | |
|-----------------------------|---|
| Model | RX 5000 |
| Frequency | 100 kHz -30 MHz |
| Antenna Type | Self-supporting wide-band receiving whip antenna for LF, MF and HF bands |
| Polarisation | Vertical |
| 3 dB Beamwidth, H-Plane | Omnidirectional |
| Impedance | 50 Ω |
| Mechanical | |
| Connection(s) | N(f) |
| Materials | Shroud : Glass fibre, stainless steel and chromed brass Housing: Polycarbonate |
| Colour | Marine white |
| Wind Area | 0.082 sq. m / 0.88 sq. ft |
| Wind Load | 108 N (160km/h) |
| Dia. At Top End | 5 mm / 0.20 in. |
| Dia. At Bottom End | 20 mm / 0.79 in. |
| Height | 5170 mm / 203.54 in. |
| Weight | 2.9 kg / 6.39 lb |
| Mounting | With side-mounting clamps on 35 - 65 mm dia. mast tube |
| Environmental | |
| Operating Temperature Range | -30°C to +70°C |
| Survival Wind Speed | 200 km/h |

