



## CXL 230-1/DAB

### Base Station and Marine DAB Antenna

- This 0 dBd omnidirectional base station and marine antenna covers the terrestrial DAB (Digital Audio Broadcast) Band.
- The antenna is a  $\frac{1}{2} \lambda$  design and this means that it needs neither loading coils, ground-plane, radials nor other auxiliary arrangements.

### DESCRIPTION

- Avoid mounting the antenna parallel with and in the neighbourhood of other metal parts, such as masts, supporting wires etc. Free mounting and as high as possible is most preferable, otherwise the SWR and the radiation diagram will be influenced.
- Bear in mind that the higher the antenna is mounted the better coverage.
- Furthermore, the antenna is a grounded radiator antenna and therefore it shows a DC-short across the coaxial cable.
- A conical glass fibre tube completely encloses the carefully designed radiating element to ensure long dependable service in all climates.

### ORDERING DESIGNATIONS

| TYPE          | PRODUCT NO. |
|---------------|-------------|
| CXL 230-1/DAB | 100000084   |

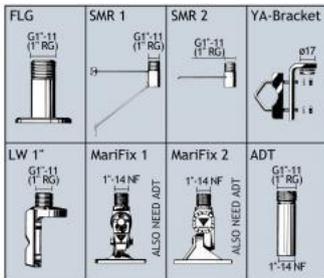
### SPECIFICATIONS

| ELECTRICAL   |   |
|--------------|---|
| MODEL        | CXL 230-1/DAB                             |
| ANTENNA TYPE | $\frac{1}{2} \lambda$ coaxial, broad-band |
| FREQUENCY    | 223 - 240 MHz                             |
| IMPEDANCE    | Nom. 50 $\Omega$                          |
| POLARIZATION | Vertical                                  |
| GAIN         | 2 dBi 0 dBd                               |
| BANDWIDTH    | 17 MHz                                    |
| SWR          | < 1.5                                     |
| MAX. POWER   | 150 W                                     |
| MECHANICAL   |   |
| TEMP. RANGE  | -30° C $\rightarrow$ +70° C               |
| CONNECTOR    | UHF-female                                |
| WIND SURFACE | 0.024 m <sup>2</sup>                      |

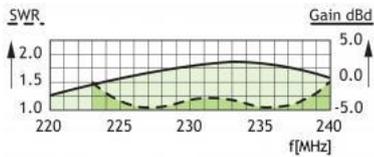


|                    |  |
|--------------------|--|
| WIND LOAD          | 30 N @ 160 km/h  |
| COLOUR             | Marine white   |
| MATERIALS          | Shroud: Polyurethane-coated glass fibre<br>Mounting bracket: Chromed brass           |
| TOTAL HEIGHT       | Approx. 1.15 m   |
| DIA. IN TOP END    | 8 mm   |
| DIA. IN BOTTOM END | 16 mm  |
| WEIGHT             | Approx. 300 g  |
| MOUNTING           | On 1" RG (G1" - 11) threaded water pipe or on optional mounting brackets (see below) |

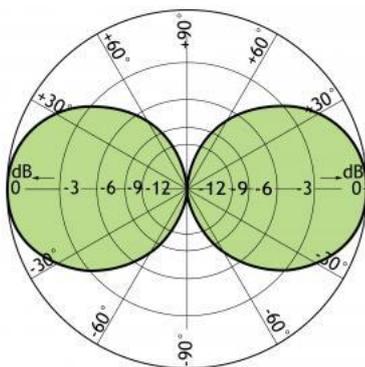
### ACCESSORIES (to be ordered separately)



### TYPICAL GAIN AND SWR CURVES



### TYPICAL RADIATION PATTERN (E-PLANE)



### TYPICAL RADIATION PATTERN (H-PLANE)



