

## COMMUNICATIONS ANTENNA FOR NATO 1 BAND

### HIGHLIGHTS

- Superior 225-400MHz high-efficiency antenna
- NATO-compatible 140mm 4-bolt flange mount
- Does not require a ground plane – mast installation possible
- Also works on a ground plane
- Maritime-proof

### DESCRIPTION

proTAC5220 is a modified dipole-type antenna that does not require a ground plane to operate efficiently, although its performance can be significantly improved by an electrically large installation platform with proper mounting.

Even though it is a wideband antenna, it has positive gain due to its intelligent design and the use of high-quality materials. Additionally, it has a wide vertical radiation pattern, offering a high performance alternative for interference free communications in less-than-ideal maritime environments.

Mechanically, it is designed to be used on board maritime vessels.

### TECHNICAL SPECIFICATIONS



| Electrical Specifications (TA=25°C)     |                         |
|---|-------------------------|
| Frequency range                         | 225MHz-400MHz           |
| Antenna gain                            | avg 2 dBi (max 5dBi)    |
| VSWR                                    | Average <2.0            |
| Impedance                               | 50 Ohm                  |
| Polarisation                            | Vertical                |
| Horizontal Radiation pattern            | Omnidirectional         |
| Antenna type                            | Dipole antenna          |
| Power handling (continuous total)       | 150W                    |
| Static discharge / Lightning protection | Coax shield DC-grounded |
| DC shorted (center pin and shield)      | Yes                     |
| Connector                               | N-female                |

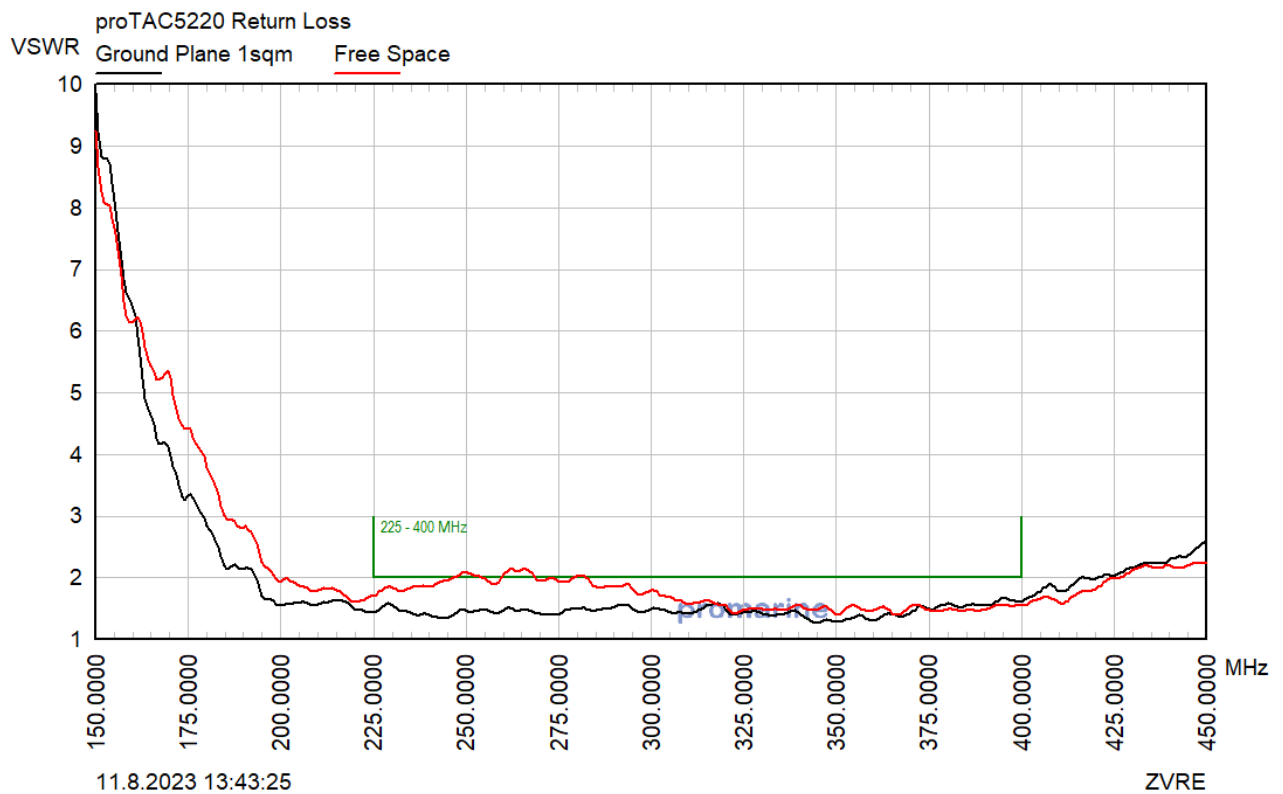
| Mechanical and Environmental properties (TA=25°C) |  |
|---|--|
| Dimensions  | Height: 614mm<br>Width: 90/140mm (radome / base plate)         |
| Weight  | 2,25kg   |
| Material  | Plastic radome (ABS), aluminium base                           |
| Mounting  | 140mm flange mount (NATO mount) with 4x11mm holes<br>DCD 115mm |
| Ingress protection                                | IP68 with O-ring / IP66 without O-ring *                       |
| Wind rating                                       | 55 m/s   |

|                                    |               |
|------------------------------------|---------------|
| Operational environment continuous | -40° - +85° C |
| Color                              | RAL9005 black |
| Order code                         | ANT5220       |

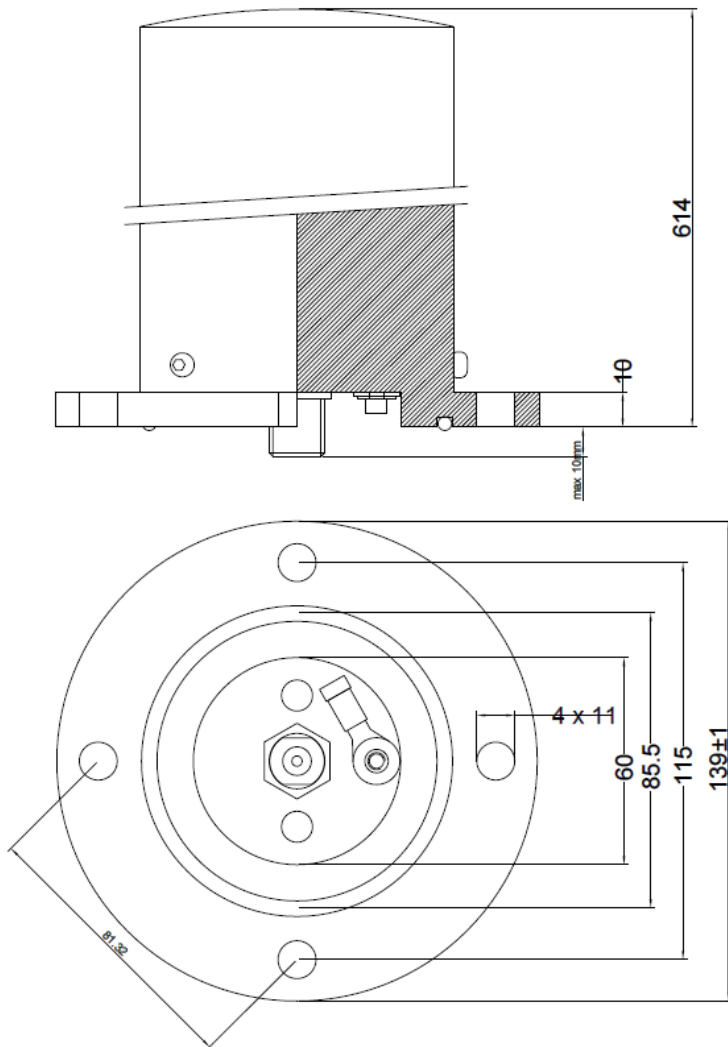
\*An IP68-rated product can be submerged up to 1,5m for up to 30 minutes when installed on a waterproof surface and supplied O-ring seals the connector area.

An IP66-rated product is protected against sprayed water, but the connector area is not sealed by an O-ring, allowing water access to the connector.

## VOLTAGE STANDING WAVE RATIO (VSWR)



## MOUNTING DIMENSIONS



Specifications may be subject to change without prior notice. The information contained in this document is not binding for any quotation or contract.



### Le spécialiste des équipements électroniques

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