

## ANTENNA TUNING UNITS OFFSHORE PLATFORM

These units ensure the automatic tuning of the antennas associated to the NDB's installed on Offshore platforms:

- UAA 9400 P for Daisy antenna,
- DAA 9400 P for Long wire antenna,
- DAA 9400 PF for Whip antenna.

They are presented in the form of a waterproof cabinet (IP65) with dampers.

The automatic tuning unit is located inside the casing. It provides the antenna with its tuning position (resonance) despite the possible tuning capacitor variations caused by meteorological and climatic fluctuations at the installation site.

The functioning of the equipment is based on the antenna reactance cancellation principle. A RF phase comparator (voltage/intensity) generates a voltage which helps to maintain the variometer on the tuning position.



DAA 9400 P



UAA 9400 P

A measuring device allows to visualize the direct power, the reflected power and the antenna intensity.

In "manual" setting, 50-ohm can be achieved by utilizing the transformer jumper switch.

The stop tuning information can be operated by the serial data link of the radiobeacon switching unit.

The whole equipment is designed for a permanent operation.

## AUTOMATIC TUNING UAA-DAA 9400 P / PF

- **Power supply:**  
24 V or 48 V (typical)
- **Consumption:**  
< 200 mA
- **RF carrier power:**  
100W NON/A1A-NON/A2A
- **Antenna impedance:**  
50 ohms
- **Frequencies ranges:**  
200-700 kHz (Daisy antenna)  
200-700 kHz (Long wire antenna)  
275-700 kHz (Whip antenna)
- **Adjustable impedance:**  
2.5-5-7.5-10-15-20 ohms
- **Measures on 50 ohms:**  
Direct power, reflected power, antenna intensity
- **Visual signalings:**  
Power supply, carrier, modulation, limit stop, tuning localization
- **Limit stop signalling:**  
by series link of the change-over unit
- **Lightning protection:**  
spheres discharger located on the cabinet

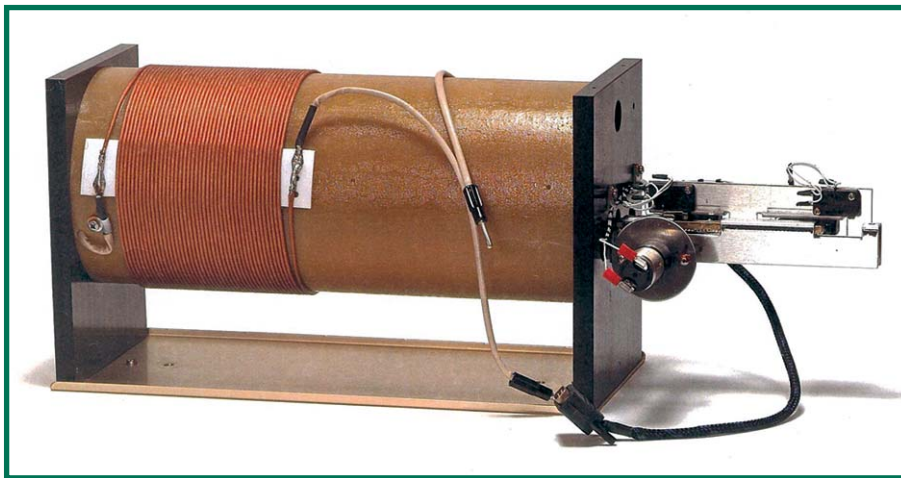
UAA-DAA 9400 P  
DAA 9400 PF / ATU

## UAA 9400 P MECHANICAL CHARACTERISTICS

- **Height:**  
294 mm + 100 mm (insulator)
- **Width:**  
655 mm
- **Depth:**  
440 mm
- **Weight:**  
15 kg

## DAA 9400 P MECHANICAL CHARACTERISTICS

- **Height:**  
699 mm + 180 mm (insulator)
- **Width:**  
684 mm
- **Depth:**  
500 mm
- **Weight:**  
30 kg



DAA 9400 PF

VARIOMETER



Data subject to change

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