

DAISY ANTENNA

The system of the Daisy-shaped antenna is based on the principle of the terminal capacity, which gives a gain of approximately 6 dB compared with a mast of same height. This characteristic is particularly appreciated when approaching an airfield and makes possible the suppression of day and night lightings. Moreover it reduces the lighting risks.

The terminal capacity constituted by an horizontal plane of 4 meters of diameter is far easier to use and much more reliable. The tuning induction coil with a high overvoltage is protected by means of a waterproof shielding installed at the top of the antenna.

The Daisy antenna is composed of two parts:

- A terminal capacity, made of 6 triangles of about 2m high, joined in an horizontal plane by their tops. Push braces ensure the rigidity of the assembly fully made of stainless light "duralinox" tubes. This configuration reminds the shape of a daisy.
- A tuning inductance coil is housed in a waterproof cylinder made of duralinox. Some taps permit to adjust the inductance with the correct value, thus permitting to be tuned in the whole frequency range.



This device has many applications for it permits to make a lot of vertical supports radiate efficiently, e.g.: the daisy assembly may be installed at the top of the mast, whatever be its height and section, on an off-shore platform, a look-out tower, a light-house or any other building.



ANTENNA - GENERAL CHARACTERISTICS

- **Height:**
14.20 m
- **Diameter at the top:**
4.44 m
- **Weight:**
162 kg
- **Frequency range:**
200-700 kHz
- **Carrier HF power:**
200 W NON/A1A - NON/A2A
- **Capacity:**
about 170 pF
- **Impedance:**
50 ohms.

UAA 9400 AUTOMATIC TUNING UNIT

The UAA 9400 unit ensures the automatic tuning keeping of the N.D.B. daisy antenna, despite the possible variations of the tuning capacity caused by the fluctuations of the climatic conditions on the site.

It is installed in a waterproof cabinet which is fixed on the insulating part of the mast base of the daisy antenna or installed in the shelter close to the antenna.



UAA 9400 - GENERAL CHARACTERISTICS

- **Power supply:**
48 V (typical)
- **Consumption:**
< 200 mA
- **RF carrier power:**
200W NON/A1A - NON/A2A
- **Antenna impedance:**
50 ohms
- **Adjustable impedance:**
2.5-5-7.5-10-15-20 ohms
- **Measures on 50 ohms:**
Direct power, reflected power, antenna intensity
- **Visual signals:**
Power supply, carrier, modulation, limit stop, tuning localization
- **Signal for limit stop info:**
by means of a series link of the change-over unit
- **Lightning protection:**
spheres discharger located on the cabinet

UAA 9400 P VERSION

The UAA 9400 P ensures the automatic tuning keeping of the "Daisy" antenna installed on "off-shore" platforms. It is installed in a waterproof cabinet equipped with bumpers.

UAA 9400 I VERSION

UAA 9400 I similar to UAA 9400, but equipped with a microcontroller on the control PCB allowing to automatically select the impedance which gives the minimum reflected power.



Data subject to change