

### VHF SYNTHESIZER

The synthesizer SY 908 has been designed to meet the civil aeronautical telecommunication requirements in the VHF range with an amplitude modulation (A3E).

It is a master oscillator designed to provide a reference signal for transmitter in the 118-144 MHz VHF frequency band with a 25 kHz or 8.33 kHz step.

The frequency can be selected either locally from the front panel, or remotely (operation from a remote control unit or RCMS).

An incorporated programmer permits to memorize up to 99 channels. These channels may be authorized, protected or forbidden.



The synthesizer SY 908 has the shape of a drawer unit for a standard rack 19", height 3 U, width 1/6 rack.

SY 908

## RADIOELECTRICAL CHARACTERISTICS

- **Frequency range:**  
118 to 144 MHz
- **Frequency stability:**  
± 1 p.p.m between -20°C and +55°C
- **Channel spacing:**  
25 kHz, 12.5 kHz and 8.33 kHz
- **Transmission with offset carrier (channel at 25kHz)**  
According to the annex 10 of IACO  
Compatible 2, 3, or 4 carriers
- **Preset channels:**  
99
- **Remote control:**
  - Configurable series access : current loop 0/20 mA RS 485
  - 3-wire parallel access (channels 1 to 8)
- **Display of the frequencies:**  
According to the annex 10 of IACO
- **RF outputs:**
  - Level on 50 ohms (excitation of a transmitter):  
2 dBm ; ± 3 dB
  - Noise under the carrier (1% F0) :  
> 150 dBc/Hz
- **Power supply** (d.c. voltage):  
21 to 31 V ; 0.4 A

## CLIMATIC CHARACTERISTICS

- **Climatic conditions:**  
Operation guaranteed between -20°C and +55°C  
95% relative humidity at +40°C (without condensation)
- **Storage:**  
-40°C to +80°C

## MECHANICAL CHARACTERISTICS

- **Dimensions (H x L x D):**  
130 mm x 70 mm x 450 mm
- **Weight:**  
2 kg

## OPTIONS

- Extended range 100-175 MHz on request \*
- 108-144 MHz (ADAP1) \*
- 116-163 MHz (ADAP3) \*

\* Depend on transmitter associated.

Data subject to change