

VHF SYNTHESIZER

The synthesizer SY 908 F has been designed to meet the civil aeronautical telecommunication requirements in the VHF range with an amplitude modulation (A3E) and with a frequency modulation (F3E).

It is a master oscillator designed to provide a reference signal for transmitter 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 F has the shape of a drawer unit for a standard rack 19", height 3 U, width 1/6 rack. It is associated with a VHF transmitter, serie EM 900.

SY 908 F

RADIOELECTRICAL CHARACTERISTICS

- **Frequency range:**
 - 118 to 144 MHz in AM
 - 137 to 163 MHz in FM
- **FM modulation (with EM 908 F):**
Max. frequency deviation 4.25 kHz \pm 0.5 dB
- **Frequency stability:**
 \pm 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 ; \pm 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 *
- Maritime Mobil Service SMM (ADAP5) *
- 118-163 MHz FM * (ADAP4) **

* Depend on transmitter associated.

** Requested for SMM option.

Data subject to change