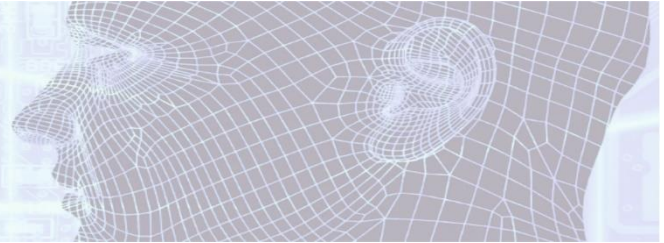




**MARCOM**  
INTEGRALES DE SISTEMAS



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## VHF/AM TRANCEIVER (ICAO) MODEL MSA-1086



- Input functions (frequencies selection, squelch definition, selection of the power RF, etc.) to manage from the keyboard.
- Output data represented on display.
- Connection possibility with remote control in normal or short configuration.
- System of self-control and self-diagnosis (BITE).
- Possibility of configuration Master / Slave using the automatic jack box.
- Possibility of connection with centralized system.

MSA-1086 is a transceiver for land-board-land communications in the range of frequencies 118 ÷ 136,975 MHz in modality AM (avionic band), with channel spacing of 25 kHz or 8,33 kHz.

MSA-1086 has been realized using only electronic components in solid state and elaborated criterions of modularity.

Adopting a technology based on microprocessor, the use of the transceiver (user-friendly approach) becomes extremely simple and its control is furnished of a self-diagnosis system on its operating conditions (Buil In Test Equipment).

# VHF/AM TRANCEIVER (ICAO)

## MODEL MSA-1086

### TECHNICAL CHARACTERISTICS

#### GENERAL SPECIFICATIONS

Frequency range:	50 KHz ÷ 30 MHz
Operative mode:	Analogue clear phone, Navtex decoding, DSC Decoding
Modulation type:	F1B, J2B, H3E, J3E
Frequency accuracy:	Better than $\pm 0.5$ p.p.m.
RF impedance:	50 $\Omega$ (unbalanced)
Diagnostic:	BITE
Power supply:	220 Vac (or 115 Vac) / 24 Vdc (18÷40 Vdc)
Fuse:	1 A (AC), 5 A (DC)
Operating temperature range:	-20 °C ÷ +55 °C
Dimensions (h x w x d):	264 (h) x 94 (w) x 218.4 (d) mm
Weight	5 Kg
Input module:	Keyboards
Output module:	LCD Display
Remote interface:	RS232 - RS422

#### TRANSMITTER SPECIFICATIONS

Power RF max:	25 W carrier $\pm 1.5$ dB
Power RF reduced:	8 W carrier
Max modulation depth:	90%
Adjacent channel power:	Better than - 50 dBc @ 8.33 kHz Better than - 60 dBc @ 25 kHz
Spurious emissions:	$\leq -46$ dBm
Audio band:	300 ÷ 3400 Hz @ 25 kHz 350 ÷ 2500 Hz @ 8.33 kHz
Audio distortion:	$\leq 10$ % @ 90% modulation depth

#### RECEIVER SPECIFICATIONS

Sensitivity:	$\leq 1.5$ $\mu$ V @ 12 dB SINAD
Adjacent channel rejection:	$\geq 60$ dB
Spurious emissions:	< 2 nW (-57 dBm)
SNR:	Better than 40 dB
Audio band:	300 ÷ 3400 Hz @ 25 kHz 350 ÷ 2500 Hz @ 8.33 kHz
Audio distortion:	$\leq 5$ % @ 30% modulation depth $\leq 10$ % @ 90% modulation depth
Audio output for loud-speaker:	2 W / 8 $\Omega$