

## 5KW MF/HF TRANSMITTER MODEL TX5000A

Completely solid state. As it is made with modular technique, it is easier to repair.

Broadband technology in the coverage from 2 to 30 MHz with instantaneous change of The working frequency and a resolution of 1 Hz.

Appropriate for military, civil, aeronautical and maritime communication use.

### SDR Technology VoIP

- MF / HF
- 2 to 30 Mhz
- 5000 W
- Ethernet or RS232C



## ● MAIN CHARACTERISTICS

- Frequency range 2 to 30 MHz
- Output power 5000W
- Telephony and data communication
- Memorizes up to 255 channels
- Remote control via Ethernet or RS-232-C
- Voice over Ip (VoIP) or input line 600 Ω

## ● TECHNICAL CHARACTERISTICS

### GENERAL SPECIFICATIONS

- Rated Power: 5000W ± 1dB
- Completely design in solid state.
- Possibility of operating in reduced powers.
- Remote control through Ethernet or bus RS-232-C.
- Number of channels to memorize: 255
- Operates in all modes: Telegraphy, Voice, Data and NAVTEX.
- SWR tolerance ≤ 3:1.
- Works with three-phase or single-phase current.
- Made of aluminium able to work in seacoast areas with extreme temperatures and humidity.
- Mechanical design of small size.
- Voice over Ip (VoIP) or input line 600 Ω.
- Compatible with external gateway
- Compatible with ED137B external gateway

- Wattmeter (incident/reflected/SWR) Incorporated.
- Power amplifiers: solid state.
- Radiated harmonics: -60dB.
- Out-of-band spurious :-60dB.
- Intermodulation (2 tones): -36dB at pep.
- Output impedance: 50 Ω
- Output connector RF: 7/8 (female).
- Broadband designed without frequency tuning
- Working regime: continuous.
- Transmission modes J3E, J2A, J2B, H3E, A1A, F1B and ISB.
- Frequency response: 300-3000 Hz.
- Ripple band: ±0.2dB.
- Out-of-band attenuation: -60dB.
- Carrier attenuation: J3E -60dB.  
H3E -6dB.  
TUNE -10dB.
- Not desired side band attenuation: -60dB.
- ON/OFF relation (A1A, J2A): -60dB.
- Microphone inputs: asymmetric.
- Micro PTT input: connected to ground.
- Line input: symmetric/Asymmetric.
- Line input impedance: 600 Ω.
- Adjustable input level OdBm (nominal).
- Audio response: 250/4000 Hz.
- Line compression -20dBm to +10dBm.

## ELECTRICAL SPECIFICATIONS

- Working frequency: 2 - 30 MHz.
- Frequency resolution: 1 Hz.
- Frequency stability: 0.5ppm.  
Optional 0.01ppm.  
Optional 0.001ppm.
- Output power: 5000W ±1dB.
- Power regulation: -3dB, -6dB, -10dB.
- Compressor response time: 1ms.
- Compressor fall time: 230ms.
- PTT input line Connected to ground.

Data PTT through line Connected to ground.

Line compressor in data OdBm. to +6dBm.

Audio input level OdBm.

Keyer input Connected to ground.

Keying modes J2A, A1A.

## ENVIRONMENTAL SPECIFICATIONS

- Operation temperature: 0 to 50°C.
- Storage temperature: -30 to 80°C.
- Humidity: 90 %

## MECHANICAL SPECIFICATIONS

Mechanical composition:

- Digital exciter model EX100A (1).
- Interconnection module MI5000A (1).
- Linear amplifier model LA2500A (2).
- Adder of RF Power SA5000A (1).
- Power supply model PS5000A (1).

External dimensions: Height 1800mm.

Width 600mm.

Depth 800mm.

Fabrication Anticorrosive aluminium.

Total weight 400Kg

## POWER SUPPLY SPECIFICATIONS

- Single phased: 220Vac ±10%
- Three phased: optional
- Consumed power in transmission:
  - 220VA --- 14500Wts
  - 380VA --- 14500Wts

The product specifications and features are subject to change without prior notice