

## FRONT LOAD 4KW TV TRANSMITTER MOT 4000 FL

The 4KW TV transmitter **MOT 4000 FL** meets the strictest demands of the international Broadcasting according to CCIR and FCC specifications. It consists on the modulator transmitter MOT 15 FL and two S 2000 amplifiers, which have 4KW, LDMOS technology and the possibility to work independently so as to have a back-up amplifier. This transmitter covers the whole frequency range for III-IV-V bands.



### MAIN ADVANTAGES

- Alarm and digitalized information system to control the following parameters: forward power, reflected power, service voltages, final-stage voltages and currents, video level, audio level, synchronism level, operation channel, offset and temperature.
- Protections against excess of forward power, SWR excess, over-voltage in power supply, over-current in amplifier and over-temperature.
- A digital telemetry output is included.
- A Notch BPF (Band Pass Filter) is included.

### GENERAL CHARACTERISTICS

GENERAL	
<b>CLASS</b>	AB1
<b>FREQUENCY RANGE</b>	Bands III-IV-V
<b>AVAILABLE STANDARDS</b>	B, D, G, H, I, K, M, N
<b>COOLING</b>	Forced air fans
<b>OPERATION TEMPERATURE</b>	-10 to +45°C
<b>STORAGE TEMPERATURE</b>	-30 to +85°C
<b>MAXIMUM RELATIVE HUMIDITY</b>	90% without condensation
<b>POWER SUPPLY</b>	220VAC ±15%, 50/60Hz
<b>CONSUMPTION</b>	6.5KVA
<b>PROTECTIONS</b>	Excess of forward power, SWR, temperature, over current and modules voltage

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<b>DIMENSIONS</b>	1240x590x900cm
<b>WEIGHT</b>	198Kg

<b>VIDEO</b>	
<b>INPUT CONNECTOR AND IMPEDANCE</b>	BNC(F), 75Ω
<b>INPUT LEVEL</b>	1Vpp ±6dB
<b>WHITE LIMITER</b>	95%
<b>2KT FACTOR</b>	≤1.5%
<b>AMPLITUDE/FREQUENCY RESPONSE</b>	≤±0.5dB
<b>CHROMINANCE/LUMINANCE INTERFERENCE</b>	≤4%
<b>ICPM</b>	≤±3%
<b>S/N RATIO (WEIGHTED)</b>	≥60dB

<b>AUDIO</b>	
<b>INPUT CONNECTOR AND IMPEDANCE</b>	XLR(F), 600Ω-10KΩ (selectable)
<b>INPUT LEVEL</b>	0dBm ±8dB, 0.5dB steps
<b>FREQUENCY RESPONSE</b>	±0.5dB (typical ±0.2dB)
<b>S/N RATIO (UNWEIGHTED)</b>	≥65dB

<b>OUTPUT</b>	
<b>NOMINAL OUTPUT POWER</b>	4000Wps
<b>OUTPUT IMPEDANCE</b>	50Ω
<b>UNEQUAL LOAD</b>	2:1 max. ROE
<b>IMD (-8 dB, -10dB, -16dB)</b>	>-54dB (with nominal output power)
<b>SPURIOUS</b>	>-56dBc (with output filter)
<b>OUTPUT FREQUENCY STABILITY</b>	1ppm
<b>OUTPUT CONNECTOR</b>	EIA 7/8"
<b>RF MONITOR CONNECTOR</b>	BNC(F)

*\* The images and/or technical specifications are subject to change without previous notice.*

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