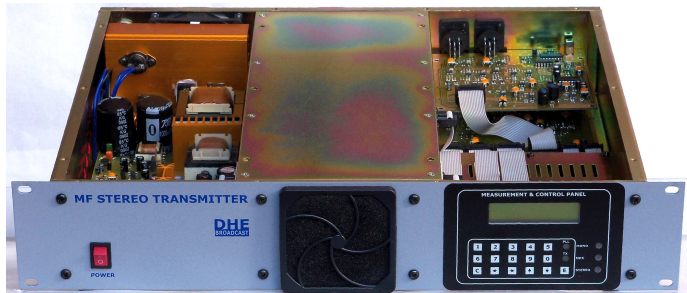


FM STEREO TRANSMITTERS, WIDE BAND NO RETUNE REQUIRED

10 FREQUENCY MEMORIES - 87.5 Mhz a 108.0 Mhz

MFT 400 / MFT 500



The **MFT 400/500** stereo FM transmitters has been designed to meet the high standards required for the international market.

The wide band design allow to program from the keyboard the operating frequency or select one of the ten stored in memory and put the transmitter on the air immediatly without any readjustment.

The design of the frequency synthesizer allow to get a very low distortion in the modulation and a high dynamic range. This features combined with a digital compensation system of the modulation, guarantees minimum differences in the modulación level across the full band.

All the parameters can be selected, changed and stored in memory from the keyboard. The main functions are protected by an user key to prevent the modification accidentally or by unauthorized personnel.

The **MFT 400/500** stereo FM Transmitters has been designed with the latest technology in processors, radio frequency and surface mount. The RF PA includes LD MOS devices. The power supply is a switching type and universal AC range.

Programming from the control panel

- transmitter enable / disable
- current frequency and memories frequencies
- current mode, stereo / mpx / mono
- pilot enable / disable
- pre enfasis select
- output power level
- modulation level
- display language, english / spanish
- password

Available meditions

- direct and reflected power in Watts (1 Watt resolution)
- modulation level in Khz (1 Khz resolution)
- input attenuator in dB (- 10 dB to + 10 dB, 1 dB resolution)
- power supply voltage (0.1 V resolution)
- power supply current (0.1 A resolution)

Inputs: right, left, mono, mpx, aux

TECHNICAL SPECIFICATIONS FOR THE MFT400 & MFT500

Frequency generation	Directa.
Modulation type	FM directa.
Frequency range	87.5 - 108.0 Mhz en pasos de 100 KHz.
Frequency programming	Desde el teclado o memoria en pasos de 100 KHz, con clave de acceso.
Maximum deviation	± 75 KHz @ 100 % de modulación.
Frequency accuracy	± 2.5 ppm después de 30 minutos.
Frequency stability	± 5 ppm entre -10°C y +50 °C. ± 2.5 ppm entre -10 °C y + 60 °C, opcional.
Temperature range	0 a 45 °C.
Maximum output power	MFT400 : 420 W máx, 400 W típica. MFT500 : 520 W máx, 500 W típica.
Maximum ROE admissible	1.5:1 .
Out of band emissions	< - 65 dB.
Signal to noise ratio mono/estéreo	> 65 dB, @ 1KHz @ ± 75 KHz, c/filtro de 15 KHz.
Signal to noise mpx	> 60 dB, @ 1KHz @ ± 75 KHz, c/filtro de 80 KHz.
Inputs	Estéreo : 600 Ohms ± 5% bal/desbal, XLR. Mono : 600 Ohms ± 5% bal/desbal, XLR. Mpx : 2 K ± 5% desbal, BNC. Aux : 10 K ± 5% desbal, BNC.
Input level	Estéreo : -10 a + 10 dBm (0.25 a 2.5 Vef) @ ± 75 KHz dev. Mono : -10 a + 10 dBm (0.25 a 2.5 Vef) @ ± 75 KHz desv. Mpx : -10 a + 10 dBm (0.45 a 4.5 Vef) @ ± 75 KHz desv. Aux : 3.5 Vef @ ± 7.5 KHz desv.
Frequency response	Estéreo : ± 0.2 dB, 30 - 15000 Hz referida a la curva normal de preénfasis. Mono : ± 0.2 dB, 30 - 15000 Hz referida a la curva normal de preénfasis. Mpx : ± 0.1 dB, 30 Hz - 100 KHz. Aux : ± 0.2 dB, 30 Hz - 100 KHz.
Distortion	Estéreo : < 0.15 %, 30 - 15000 Hz, @ ± 75 KHz desv. Mono : < 0.1 %, @ 1 KHz, @ ± 75 KHz desv. Mpx : < 0.1 %, @ 1 KHz, @ ± 75 KHz desv. Aux : < 0.2 % @ 7,5 KHz de desv.
Modulation dispersion	± 0.2 dB, @ 1KHz, @ ± 75 KHz desv, entre extremos respecto al centro de banda.
Pre emphasis	0, 25, 50, 75 useg.
Indications	Estado del PLL, del transmisor, modo de operación, por leds.
Meditions	Potencia directa, reflejada, nivel de modulación, nivel del atenuador de entrada, tensión y corriente de la fuente principal.
Programming from the control pannel	Frecuencia, modo de operación, nivel de modulación, potencia de salida, idioma del display, clave de acceso.
Cooling	Fuente: Forzada, Potencia RF: Forzada.
Antenna	50 Ohms desbal, "N" hembra.
Power request	100/130 Vca - 180/240 Vca - 47/63 Hz, fuente switching seleccionable por jumper.
Power drain	MFT400: 575 W. MFT500: 720 W.
Dimensions	Alto: 2U - Ancho: 430 mm - Profundidad: 350 mm.
Weight	MFT400: 11.0 Kg MFT500: 11.0 Kg

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Specifications may change without notice.

