



ELETRONIKA

SRL



THE ONLY ONE WITH
TOUCH-SCREEN
DISPLAY

2,5kW
OUTPUT POWER

Rack 19"-20U (optional)

FM Solid State Stereo Transmitter **TXSM2500A**

The new 2.5kW FM radio transmitter is the latest news among Elettronika FM products.

It is driven by the MIRA, the best of Elettronika radio exciters, and thanks to a simplified user interface with a *touch-screen* graphic *display* it makes monitoring and setting of the operating parameters very easy.

Besides the standard adjustment, such as output power, modulation and operating frequency, it allows to schedule its power on hourly basis, thus being able to consume less at night time, and to set a password to prevent non-authorized people to modify its settings.

Its reliability is further improved by an Automatic Gain Control (AGC) system.

The 2.5kW transmitter only contains one 2.5kW amplifier module, which makes it very compact, reducing space requirements and costs for the end user. It is installed into a single 20U rack, with enough space for a dual driver.

Its active devices are made using MOSFET technology, for greater reliability.

It provides a very good sound quality, with S/N ratio of about 90dB and 60dB stereo separation.

The LCD *Display* allows to display and control all functions, and thanks to a series of communication ports it can be connected to any telemetering system.

TECHNICAL SPECIFICATIONS

RF SECTION

Rated output power	2500W
RF Output connector	EIA 7/16"
RF Output impedance	50
Frequency range	87.6 - 107.9MHz
Frequency programmability	Step 10/50/100kHz from panel
Frequency stability	Better than 2.5ppm (option 0.05ppm)
Spurious and harmonic suppression	Meets or exceeds all FCC and CCIR requirements
Modulation capability	Meets or exceeds all FCC and CCIR requirements
Asynchronous AM S/N ratio	65dB or other
Synchronous AM S/N ratio	60dB or other

SOUND SECTION

● **MPX Operation**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude response	± 0.1dB, 30Hz - 100kHz
Harmonic distortion	< 0.1%, 30Hz - 100kHz
S/N Ratio with CCIR unweighed	83dB
S/N Ratio with CCIR weighed	80dB
S/N Ratio with RMS Detector	90dB

● **MONO Operation**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude	± 0.2dB, 30Hz - 15kHz
Harmonic distortion	< 0.05%, 30Hz - 15kHz
Pre-emphasis	Flat, 50 s, 75 s
S/N Ratio with CCIR unweighed	82dB
S/N Ratio with CCIR weighed	78dB

● **Internal Coder**

Audio input	2Vpp, XLR connector, 600 /10k (internal jumper)
Frequency amplitude	± 0.2dB, 30Hz - 15kHz
Harmonic distortion	< 0.05%, 30Hz - 15kHz
Pre-emphasis	Flat, 50 s, 75 s
Stereo separation	> 50dB (typ. 60dB)
S/N Ratio with CCIR unweighed	76dB
S/N Ratio with CCIR weighed	72dB

● **SCA Operation**

Audio input	2Vpp, BNC connector, 10k
Frequency amplitude response	± 0.1dB, 49Hz - 100kHz

● **Auxiliary**

Serial interface	RS232, RS485
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GENERAL

AC Power requirement	230Vac, ± 20%, 50/60Hz 400Vac (on request)
Power consumption	5000VA
RS232 Socket	DB9 Connector (on amplifier)
RS485 Socket	DB9 Connector (on amplifier)
Telemeasuring socket	DB9 Connector (on amplifier)
Cooling	Forced air
Dimensions	Rack 19"-20U (Optional)
Ambient temperature	-5° to +45°C

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