



FM BROADCAST 5000W TRANSMITTER



Frontplane (in threephase configuration)

KEY FEATURES

- Excellent audio performance
- Compact size in relation to the RF power
- Low power consumption
- Last generation of RF power devices
- Frontplane control and metering via HD Oled Display
- Parameters setting by only one rotary knob
- Quick and easy to use and immediate learning menu
- IP Connectivity for anywhere access
- Quick and easy routine maintenance
- High quality Stereocoder
- RDS Coder
- Telemetry via IP



slide-in power supply for easy maintenance



Rear side

GENERAL

Power Output:.....from 0 to 5000W continuously adjustable from front panel.
 Frequency Range:.....87.5-108.00 MHz, [66-74 MHz (OIRT), 76-90 MHz (JPN)]
 Type of Modulation:.....Direct frequency modulation of carrier, F3E stereo and mono.
 RF Output Impedance:.....50 ohm.
 RF Output Connector:7/8" (1+5/8" upon request)
 RF Output setting:.....10-100WW step
 VSWR:1.5:1 Max with automatic fold-back VSWR prot. at all phase angles
 Frequency Stability:Internal TCXO ±2 ppm from -5 to +50°C (better on request)
 Modulation Capability:.....over ±200 KHz
 Audio Inputs:L&R analog balanced, Unbalanced composite, AES, SCA, RDS
 Operator interface setting:.....Encoder Push-Rotary
 LCD Display:.....Oled hi-definition graphic type
 Frequency Control:Synthesizer µprocessor controlled.
 Programming step:.....10 KHz increments
 Interface control:.....N°2 RS485 ports RJ45 back panel
 PC Interface: USB:connector Type B female front panel
 Telemetry:.....RJ45 LAN connection with WEB-Server
 Monitor RF:.....-10 dBm, BNC-F connector
 Off Lock RF Muting:< -80 dbc.
 RF Harmonics:Exceeds ETSI/CCIR/FCC requirements.
 RF Spurious:Exceeds ETSI/CCIR/FCC requirements.
 Preemphasis:Flat/50/75µs selectable from front panel.
 Asynchronous AM S/N Ratio:.....-65 dB below ref.100% AM modulation @ 400 Hz.
 Synchronous AM S/N Ratio:-60 dB below ref. 100% AM mod. 400 Hz with FM 100%
 AC Power Factor:.....0.95 typical at 220VAC
 Overall efficiency:.....>72% (typ. 74%)
 Operating temperature:-10°C to +50°C.
 Max Operating Altitude:> 3000 mt.
 Relative Humidity Range:0 to 95% non condensing.

MULTIPLEX PERFORMANCE

Composite Input Impedance:.....600 ohm or 10 Kohms balanced.
 Composite Input Level:.....-12 to +6 dBm in 0,5dB step (Other range on request)
 Input Connector:.....BNC female.
 AES/EBU Input Connector:.....BNC female
 Composite Response:.....±0.2 dB, 30 Hz to 100 KHz.
 THDistortion + Noise:.....0.05% @ 400 Hz
 Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
 FM S/N Ratio:..... better than -80 dB RMS ref. ±75 KHz 50 µs de-emph. decoded.

MONAURAL PERFORMANCE

Operational Modes:Mono (L+R)
 Input Impedance:.....600 ohm or 10 Kohms balanced.
 Input Level:.....-6 to +12 dBm in 0,5dB step (Other range on request)
 Input Connector:.....XLR female - balanced.
 Audio Frequency Response:.....±0.15 dB, 30 Hz to 15 KHz.
 Preemphasis setting:.....0, 50µS, 75µS
 Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
 T H Distortion + Noise:.....< 0.05% @ 400 Hz
 FM S/N Ratio:.....better than -80 dB RMS ref. ±75 KHz 50µs deemphasis.

STEREO CODER PERFORMANCE

Audio Input Impedance:.....600 ohm balanced, 15 Kohm unbalanced.
 Audio Input Level:.....-6 to +6 dBm in 0,5dB step (Other range on request)
 Input Connector:.....XLR female.
 Audio Frequency Response:.....±0.15 dB, 30 Hz to 15 KHz.
 Preemphasis setting:.....0, 50µS, 75µS
 THDistortion + Noise:.....0.05% @ 400 Hz
 Intermodulation Distortion:.....0.05%, 1 KHz/1.3 KHz, 1:1 ratio
 FM S/N Ratio:.....-80 dB RMS at ±75 KHz 50 µs de-emphasis.
 Pilot Frequency:19 KHz ± 1 Hz
 38 KHz Suppression:.....-60 dB (typ. -70 dB)
 Audio Filter Attenuation:.....< -55 dB @ 19 KHz, < -50 dB 20 KHz to 100 KHz
 Stereo Separation:.....30+100 Hz = -50 dB, 100Hz+15 KHz = -60 dB
 Crosstalk attenuation:.....Main to Sub -50 dB 30 Hz to 15 KHz below 100% Mod.

SCA-RDS 1&2 PERFORMANCE

Input Level:.....-6 to +6 dBm in 0,5dB step (Other range on request)
 Impedance:.....10k ohms unbalanced
 Connector:.....BNC female
 Amplitude Response:.....+/- 0.1dB; 53Hz to 100kHz

MECHANICAL/PHYSICAL

Height: 221 mm (5HE)
 Width:19" (48.3 cm) EIA Rack Mount
 Depth: 23" (605 cm) with connectors
 Weight:..... 36 kg 78 lbs unpacked