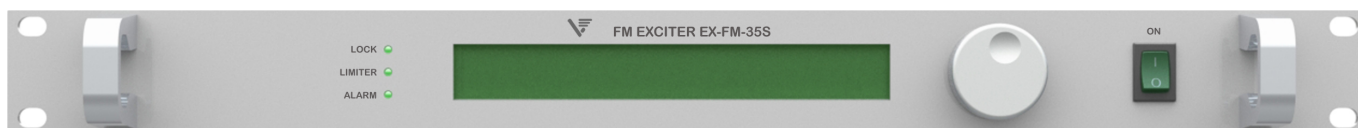


FM Exciter EX-FM-35S / FM Transmitter RT-FMS-101



Specifications

Operating frequency range		87.5 - 108 MHz, setting in 10 kHz steps
Frequency stability		$\leq \pm 50$ Hz
RF output power		20/100W ± 1 dB, adjustable, ALC mode
Output connector		N female, 50 ohm
Probe		-30dB, directional coupler, BNC female
Hamonics suppression		≤ -70 dB
Spurious emission		≤ -70 dB
Residual AM		$\leq 0.10\%$, synchronous $\leq 0.15\%$, asynchronous
S/N ratio	mono	≤ -80 dB
	stereo	≤ -75 dB
Pre-emphasis		50 μ s ± 0.1 dB
Amplitude frequency response:	stereo L-R	± 0.2 dB, 30 Hz – 15 kHz
	AUX/RDS	± 0.1 dB, 30 Hz – 100 kHz
Total harmonic distortion (THD)		$\leq 0.05\%$
Stereo separations		≤ -56 dB, 30 Hz – 15 kHz ≤ -65 dB @ 1 kHz
Pilot tone		19 kHz ± 0.5 Hz
Audio inputs L,R		0 ± 6 dB, XLR male, balanced , 600 ohm $\pm 10\%$
AUX/RDS input		0 ± 12 dB, > 2 kohm, BNC female
19 kHz output		1 Vpp, ≥ 2 kohm, BNC female
Control and settings		All settings are available on the front panel
Protection		automatically reduce RF output power if VSWR > 2 standby RF Output if: <ul style="list-style-type: none">• the PLL frequency synthesizer is unlocked• heatsink temperature > 70 °C• power supply overload recover automatically after fault condition is removed
Operating condition		
Temperature range		+5 ... +45 °C
Humidity		80% non condensing
AC power supply		220 Vac +10/-15% ; 50 ± 2 Hz
Power consumption		100/200 VA max
Cooling		forced air
Dimension		1U 19" (44.4x482.6x405mm)
Weight		6.5 kg

Options

Standard AES/EBU digital stereo audio interface available as option.

Input connector	XLR male, balanced, 110 ohm automatic switching between analogue and digital input
Audio data	24 bits
Sampling frequency	32, 44.1, 48, 96 kHz
Dynamic range	120 dB

Integrated IP RDC (Remote Device Control) unit provides full control over equipment (or group of equipment) and additional features: control of all parameters related to operation, password protection, remote turn on/of, management of device history. The IP RDC unit allows integration into telemetry system or other supervisory systems.

Local network	RS-485 interface, up to 14 devices
Ethernet connector	RJ-45
Internet Protocol	SNMP
Data communication	HTTP

Web page contains the name of facility installation, description of the transmitters, device names and main parameters, device history.

RDS coder (Radio Data System) generates a high quality signal to full EBU/Cenelec specifications. The data signals are carried on a sub-carrier which is added to the stereo pilot-tone system.

RDS sub-carrier	57 kHz \pm 2 Hz
Modulation	DSB with suppressed carriers
Bandwidth	\pm 2.4 kHz
Carrier suppression	\leq -50dB
RDS data input	RS-232 interface
Standard supported	EBU/CENELEC Specification EN 50067

Software include:

FM Manager generates detailed information about the transmitting station.

FORA Server , Init Coder - helper programs and data initialization.

Documentation content detailed user manual. Please, carefully read this manual before connecting the RDS encoder.

Dynamic PS automatically generates dynamic data, scrolls song title and any other information.

RDS Manager support remote control and settings.