

## EM 30 DDS FM MODULATOR



The new **EM 30 DDS FM MODULATOR** (Digital Audio Transmitter) has been created to meet the strictest demands of Broadcasters worldwide.

### MAIN ADVANTAGES

- Great audio quality due to its low distortion, up to 70dB stereo separation and 90dB signal/noise ratio.
- It can be used as an independent exciter, with power output from 0 to 100%.
- DSP board for isofrequency applications (SFN) and audio limiter (ITU) to control totally digital emissions in the spectrum and free from mechanical disturbances.
- Audio rescuer integrated, with programmable established time and all inputs priority (analog, digital and MPX).
- Microprocessor controlled interface and totally programmed by LCD and optical encoder.
- High performance stereo coder included, L and R analog audio inputs, mono inputs, MPX composite signal and auxiliary inputs for SCA/RDS signals. Includes S/PDIF, TOSLINK and AES/EBU digital standard inputs.
- Remote control and telemetry system via WEB or SNMP (optional).
- Fold back for correct protection of VSRW (Voltage Standing Wave Ratio), plus IAMLC (Intelligent Automatic Modulation Level Control) to maintain a steady modulation.
- RDS coder included, with standard UECP functions.

## EM 30 DDS FM MODULATOR

<b>FREQUENCY RANGE</b>	87.5-108MHz
<b>OUTPUT POWER</b>	30W
<b>MODULATION TYPE</b>	MODULATION TYPE Direct Carrier Frequency
<b>OPERATIONAL MODE</b>	Mono, Stereo, Multiplex
<b>ENVIRONMENTAL WORKING CONDITIONS</b>	-10°C a +50°C / 95% relative humidity
<b>FREQUENCY PROGRAMMABILITY</b>	From software with 1, 10, 100, 1000 kHz steps
<b>FREQUENCY STABILITY</b>	± 1 ppm
<b>MODULATION CAPABILITY</b>	150kHz
<b>PRE-EMPHASIS MODE</b>	0µS, 50µS (CCIR), 75µS (FCC)
<b>AC POWER INPUT</b>	115 / 230 ±15% VAC
<b>DIMENSIONS</b>	483 mm x 88 mm x 400 mm
<b>WEIGHT</b>	10 KGS
<b>COOLING</b>	Forced, with internal FAM
<b>ACUSTIC NOISE</b>	< 56 dBA
<b>AUDIO INPUTS</b>	
<b>LEFT &amp; RIGHT</b>	10kOhm o 6000hm (XLR F) Level: -12,5 a +12,5 dBu
<b>MPX UNBALANCED</b>	10kOhm (BNC) Level: -12,5 a +12,5 dBu
<b>SCA/RDS</b>	10kOhm (2 x BNC) Nivel: -30 a +13dBu
<b>AES/EBU</b>	1100hm (XLR F)
<b>TOSLINK</b>	TOSLINK F05 - EIAJ
<b>OUTPUTS</b>	
<b>CONNECTOR</b>	500hm (Type N)
<b>RF MONITOR</b>	500hm (Type BNC) -30dBc
<b>PILOT OUTPUT</b>	Level: -12.5 a + 5 dBu (0.1 dB step variable by software. or: -6.5 a +11 dBu (internally adjustable +6dBu by jumper) or: -0.5 a 17 dBu (internal jumper to increase the output level of + 12dBu)
<b>MPX MONITOR</b>	>6000hm (BNC) Level: -12.5 a + 5 dBu (0.1 dB step variable by software. or: -6.5 a +11 dBu (internally adjustable +6dBu by jumper) or: -0.5 a 17 dBu (internal jumper to increase the output level of + 12dBu)