Indium Series ETG2500 2500W SOLID STATE EMTRANGALITY











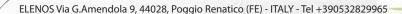


Indium Series ETG2500

2500W SOLID STATE FM TRANSMITTERS

GENERAL DATA	
Output Nominal Power	2500W adjustable
Operating band	87.5 - 108 MHz
RS232/RS485	Yes. Connector DB9 female
Points of measure	RF Sample - MPX Monitor
Displayed Parameters	More than 50 parameters displayed on a wide graphic OLED
Adjustments	From the frontal panel through OLED/from PC
Number of L-DMOS in power amplifier stage	4
RF power stage technology	ICEFET & ECOSAVING
Dimensions: Rack units	4U
Dimensions: W - H - D	48.5 - 17.6 - 70 cm
Weight	38 Kg
Number of power supplies	3
Number of cooling fans	6
CONNECTORS	
RF Output connector	7/8
MPX Connector	BNC Female
LEFT & RIGHT Connectors	XLR Female
AES/EBU Connector	XLR Female
AUX Connectors	BNC Female
Monitor/19kHz Connector	BNC Female
RF PERFORMANCE	
Output impedance	50 Ω
Automatic power RF control	Stabilizes the output power value on the set value
Overall output power RF stability	+/-0,1 dB
VSWR	2:1 on full power automatic power reduction beyond 1.5:1 transmitter is protected for short and open circuit
Harmonics	< -75 dBc
Out of band emission (spurious)	<-80dBc

X/STEREO CODER PERFORMANCE	MANA SETIL VI MANA
AES/EBU Input Resolution	24bits
AES/EBU Input Sample Rate	32,44.1,48,96 KHz Automatically selected
L/R Audio input level	+15/-10 dBu for 75KHz standard deviation
L/R level adjustment	Soft adjust 0.1dB steps from front panel
L/R Input Impedance	Selectable 10K - 600 Ω , balanced (for analog) 110 Ω (for digital)
MPX audio input level	+15/-10 dBu for 75KHz standard deviation
MPX level adjustment	Soft adjust 0.1 dB steps from front panel
MPX Input impedance	5KΩ selectable
SCA/RDS audio input level	0 dBu for 75KHz standard deviation
AES/EBU input level	-20 dBFS0 dBFS
PILOT Amplitude adjustment	Soft adjust 0.05% steps from front panel
PILOT Phase adjustment	Soft adjust 0.01 degree steps from front pane
PILOT tone frequency	19 KHz
PILOT tone deviation	Soft adjust +/- 7.5 KHz
PILOT tone frequency stability	+/-1 Hz
19KHz Output	Yes
Ext.ref 10MHz	Yes (option)
AES/EBU-Analog input automatic changeover	Yes
THD+N	< 0.05% with 75 kHz frequency deviation < 0.05% with 100 kHz frequency deviation @ 30 Hz to 15 kHz, L/R channel
Pre-emphasis	0/25/50/75 microseconds selectable
Pre-emphasis tolerance	+/- 0.1 us
FM S/N STEREO CCIR	> = 72 dB weighted > = 72 dB unweighted @ fmod = 400 Hz, 75 kHz frequency deviation peak value measurement, L/R/MONO channel
Asynchronous AM S/N unweighted	> 55dB
Synchronous AM S/N	> 50 dB
Modulation frequency range	30Hz to 15kHz
Amplitude-frequency characteristic	+/-0.1 dB (without pre-emphasis) +/-0.1 dB (with pre-emphasis) @ fmod = 400 Hz, 30 Hz to 15 kHz, L/R/MONO channel



Indium Series ETG2500

2500W SOLID STATE FM TRANSMITTERS

Stereo Crosstalk	>60 dB linear
	>60 dB non-linear
	@ 30 Hz to 15 kHz, L/R channel (100% modula-
	tion)
Intermodulation distortion	<0.05% Measured with two of tones 1KHz &
	1.3KHz, ratio 1:1 at 100% modulation
Class of emission	F3
Stereo emission	According to ITU-R reccomendation
	450 (pilot tone)
CITER PERFORMANCE	
PLL lock time	<10sec
Frequency deviation	+/- 75 KHz 0.1 dB steps adjustable
Maximum frequency deviation	+/- 150 kHz
Frequency stability	1ppm
RF Frequency steps	10 KHz
Phase Response	0.1 degree from linear phase; 53kHz to 100kHz
Modulation Capability	+/-250 KHz
•	

TALLATION REQUIREMENTS	X / / X / / X
Power supply	230/400 Threephase-Singlephase Version 50-60Hz VAC
Power consumption (typical)	3.5KW
Overall efficiency (typical from -3dB to Pnom)	>=70%
Power factor	> 0.95
Current Consumption @ 230VAC/single phase	15 Amp
Magneto-thermic capacity @ 230VAC/single phase	32 Amp
Conductor size @ 230VAC/single phase	6 sqrt.mm
Conductor size @ 230VAC/single phase	9 AWG
Current Consumption @ 230VAC/three phase	9 Amp
Magneto-thermic capacity @ 230VAC/three phase	20 Amp
Conductor size @ 230VAC/three phase	4 sqrt.mm
Conductor size @ 230VAC/three phase	11 AWG
Current Consumption @ 400VAC/three phase	5 Amp
Magneto-thermic capacity @ 400VAC/three phase	10 Amp
Conductor size @ 400VAC/three phase	2.5 sqrt.mm
Conductor size @ 400VAC/three phase	13 AWG
OLING/NOISE DATA	X
Cooling system	Forced air-cooling . From 600 to 1200 m ³ /h
Acoustic noise	< 65 phon @ transmitter room, 2 m distance of the front of transmitter
/IRONMENT	
Temperature range (operating)	-5 - +45 °C
Temperature range (non operating)	-20 - +55 ℃
Humidity range (operating)	95% @ 40 °C
Humidity range (non operating)	90% @ 55 °C
Altitude range (operating)	<3000 meters
Altitude range (non operating)	<15000 meters
ECONTROL & TELEMETRY	
Remote control	Yes
Remote Control at clean contacts	Yes
SNMP option	Yes (external)

