

Indium Series ETG 150



indiumseries



ELENOS
broadcast @xperience

Indium Series ETG 150

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GENERAL DATA

Output Nominal Power	150W adjustable
Operating band	87.5 - 108 MHz
RS232/RS485	Yes
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	1
RF power stage technology	ICEFET & ECOSAVING
Dimensions: Rack units	2U
Dimensions: W - H - D	48.5 - 8.5 - 58.5 cm
Weight	9.4 Kg
Number of cooling fans	2

CONNECTORS

RF Output connector	N
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

MPX/STEREO CODER PERFORMANCE

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	5K Ω selectable
SCA/RDS audio input level	0 dBu for 75KHz standard deviation
AES/EBU input level	-20 dBFS - -0 dBFS
PILOT Amplitude adjustment	Soft adjust 0.05% steps from front panel
PILOT Phase adjustment	Soft adjust 0.01 degree steps from front panel
PILOT tone frequency	19 KHz
PILOT tone deviation	Soft adjust +/- 7.5 KHz
PILOT tone frequency stability	+/-1 Hz
19KHz Output	Yes
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 MPX FCC	82 dB 20Hz - 23KHz - 50uS - ref @ 53KHz - RMS
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	> = 50 dB
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

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Stereo Crosstalk	>60 dB linear >60 dB non-linear @ 30 Hz to 15 kHz, L/R channel (100% modulation)
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 recommendation 450 (pilot tone)

EXCITER 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

INSTALLATION REQUIREMENTS

Power supply	110, 230 Two-Singlephase Version 50-60Hz VAC
Power consumption (typical)	230W
Current consumption (typical@230V)	1A
Overall efficiency (typical from -3dB to Phom)	> = 70%
Power factor	> 0.95

COOLING/NOISE DATA

Cooling system	Forced air-cooling
Acoustic noise	< 65 phon @ transmitter room, 2 m distance of the front of transmitter

ENVIRONMENT

Temperature range (operating)	-5 - +45 °C
Temperature range (non operating)	-20 - +55 °C
Humidity range (operating)	95% @ 40 °C
Humidity range (non operating)	90% @ 55 °C
Altitude range (operating)	<3000 meters
Altitude range (non operating)	<15000 meters

TELECONTROL & TELEMETRY

Remote control	Yes
Remote Control at clean contacts	Yes
SNMP option	Yes (external)

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