

FT500-D

500W FM DIGITAL TRANSMITTER

The FT500-D FM transmitter is designed to provide more reliable FM transmitters using the extremely rugged LDMOS power transistor for the FM broadcast market.

FT500-D consists of a 25W digital exciter (FTC25-D), 500W FM amplifier (FA500) and a cabinet.

Main Features

- Direct to channel digital exciter with built in RDS encoder
- Very Efficient LDMOS Amplifier
- Excellent audio performance
- Measurement and display of the transmitter's working parameters
- Built-in silence detector (adjustable time)
- · Built-in automatic audio source selector
- Seven Selectable Complete Set-up Ready For Use N+1 System
- · Automatic start/stop for air conditioner
- · Ready for SFN
- RDS Alarm contact
- Event logs can be seen on display or printed out with date&time of event
- · High Reliability Use Of Microstrip Technology

Options

- Double Exciter With Automatic Changeover System
- GSM/GPRS Modem for internet connection
- Remote Control Via Internet (TCP/IP, SNMP)











A FT500-D

500 W FM DIGITAL TRANSMITTER

chnical Parameter	rs	
COMPOSITION	Exciter	FTC25 25W FM Exc
20 00111011	Amplifier	FA500 500W FM Ampl
GENERALDATA	RF Output Connector	7
	Output Power Range	0-50
	Operating Band	87.5-108.0 N
	Dimensions:W - H - D	52 - 40 - 80cm (7U RackL
	Weight	58
	RF Power Stage Technology	LDN
	Automatic Power RF Control	Stabilized output power value on the set vi
	Overall Output Power RF Stability	±0.1
	Cooling System	Forced air-coo
	Air outlet	On the rear. Cooling flow 2200/2400 m3/h (depending on environm
	RS232/RS485	2xRS485 (RJ45), 1xRS232 (DB9). RS232 only for printer. RS485 for communication with other dev
	Points of measure	RF Sai
	N+1 Redundancy System	Available for max.
	Automatic Change Over Unit	Available via relay contacts of the amp
	Automatic Aircondition Control	Available via relay contacts of the amp
	Humidity Control	Available to see the humidity ratio and run the air condition automat
	Event Log	Last 100 events in LCD menu, 26 events via remote connect
	AC Voltage & Current Protection	Avail
EXCITER PERFORMANCE	L/R Input Level	-3 to +9 (
	L/R Level Adjustment	Soft adjust 0.1 dBu steps from front p
	L/R Input Impedance	600 ohm balanced, 10K ohms unbalar
	MPX Input Level	+15/-10 dBu for 75 KHz standard devia
	AES/EBU input resolution	22 444 49 00 402 KHz automatically cala
	AES/EBU input sample rate	32, 44.1, 48, 96, 192 KHz automatically sele
	AES/EBU input level	-20 dBFS - 0 d
	SCA/RDS input level	0 dBu for 10% devia
	PILOT Tone Frequency Stability	± ´
	THD+N	0.03% @ 400Hz (stereo/mono operation), 0.01% @ 400Hz (MPX opera
	Pre-emphasis	50/75µs select
	FM S/N CCIR Mono/Stereo	>80dB weighted >80dB unweighted @400Hz, 75KHz deviation, quasi-peak detector, 50us de-emph
	FM S/N MPX	85 dB 20 Hz to 23 KHz @ 53 KHz - detector R
	Amplitude-frequency character	istic ± 0.15 dB, 30 Hz to 15
		•
	Linear crosstalk	> 70 dB 20 Hz to 15 k
	Intermodulation distortion	<0.05% Measured with two of tones 1 kHz & 1.3 KHz, ratio 1:1 at 100% modulated to 1.3 kHz, ratio 1:1 at 1.3 kHz, ratio 1
	Class of Emission	
	Stereo Emission	According to ITU-R recomendation 450 (pilot to
	Frequency Deviation	±75
	Maximum Frequency Deviation	
	Frequency Stability	± 1ppm from -5 to 4
	RF Frequency Steps	100
INSTALLATION REQUIREMENTS	AC Voltage	180/264V AC – 47-6
	Power Consumption	70
	Current consumption @220VAC	
	Overall Eficiency	
	Power Factor	>
ENVIRONMENT	Temperature Range (operating)	-5 / +45 °C, 23 / 1′
	Humidity Range (operating)	90% @ 40 °C, 10
	Altitude Range (operating)	<2000 meters / <13125 l
	Remote Control via TCP/IP	0 O
TELECONTROL& TELEMETRY	SNMP	0
	CIVIVII	
	Remote Control via GSM Modem	Op