



# FT1K

## 1 KW FM TRANSMITTER



The FT1K FM transmitter is designed to provide more reliable FM transmitters using the extremely rugged LDMOS power transistor for the FM broadcast market.

FT1K consists of a 25W digital exciter (FTC25), 1000W FM amplifier (FA1K) 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
- High Reliability Use Of Microstrip Technology
- Seven Selectable Complete Set-up Ready For Use N+1 System
- Automatic start/stop for air conditioner
- Event logs can be seen on display or printed out with date&time of event

### Options

- GSM/GPRS Modem for internet connection
- Remote Control Via Internet (TCP/IP, SNMP)





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### Technical Parameters

<b>COMPOSITION</b>	Exciter Amplifier	FTC25, 25W FM Exciter FA1K, 1KW FM Amplifier
<b>GENERALDATA</b>	RF Output Connector Output Power Range Operating Band Dimensions:W - H - D Weight RF Power Stage Technology Automatic Power RF Control Overall Output Power RF Stability Cooling System Air outlet RS232/RS485 Points of measure N+1 Redundancy System Automatic Change Over Unit Automatic Aircondition Control Humidity Control Event Log AC Voltage & Current Protection	7/16 0-1000W 87.5-108.0 MHz 52 - 40 - 80cm (7U RackUnit) 52 kg LDMOS Stabilized output power value on the set value ±0.1 dB Forced air-cooling On the rear. Cooling flow 2200/2400 m3/h (depending on environment) 2xRS485 (RJ45), 1xRS232 (DB9). RS232 only for printer. RS485 for communication with other devices RF Sample Available for max. 7+1 Available via relay contacts of the amplifier Available via relay contacts of the amplifier Available to see the humidity ratio and run the air condition automatically Last 100 events in LCD menu, 26 events via remote connection Available
<b>EXCITER PERFORMANCE</b>	L/R Input Level L/R Level Adjustment L/R Input Impedance PILOT Tone Frequency Stability THD+N Pre-emphasis FM S/N CCIR Mono/Stereo Amplitude-frequency characteristic Linear crosstalk Intermodulation distortion Class of Emission Stereo Emission Frequency Deviation Maximum Frequency Deviation Frequency Stability RF Frequency Steps	-3 to +9 dBm Soft adjust 0.1 dBu steps from front panel 600 ohm unbalanced ± 1 Hz 0.03% @ 400Hz (stereo/mono operation) 50/75µs selectable >80dB weighted >80dB unweighted @400Hz, 75KHz deviation, quasi-peak detector, 50us de-emphasis ± 0.15 dB, 30 Hz to 15 KHz > 70 dB 20 Hz to 15 kHz <0.05% Measured with two of tones 1 kHz & 1.3 KHz, ratio 1:1 at 100% modulation F3 According to ITU-R recommendation 450 (pilot tone) ± 75 KHz ± 90 KHz ± 1ppm from -5 to 45°C. 100 KHz
<b>INSTALLATION REQUIREMENTS</b>	AC Voltage Power Consumption Current consumption @220VAC Overall Efficiency Power Factor	180/264V AC – 47-63 Hz 1350 VA 6.1 A 0.72 >0.95
<b>ENVIRONMENT</b>	Temperature Range (operating) Humidity Range (operating) Altitude Range (operating)	-5 / +45 °C, 23 / 113 °F 90% @ 40 °C, 104 °F <2000 meters / <13125 Feet
<b>TELECONTROL &amp; TELEMETRY</b>	Remote Control via TCP/IP SNMP Remote Control via GSM Modem Alerting via E-mail & SMS	Option Option Option Option