

AFM-5000 5000W FM Transmitter

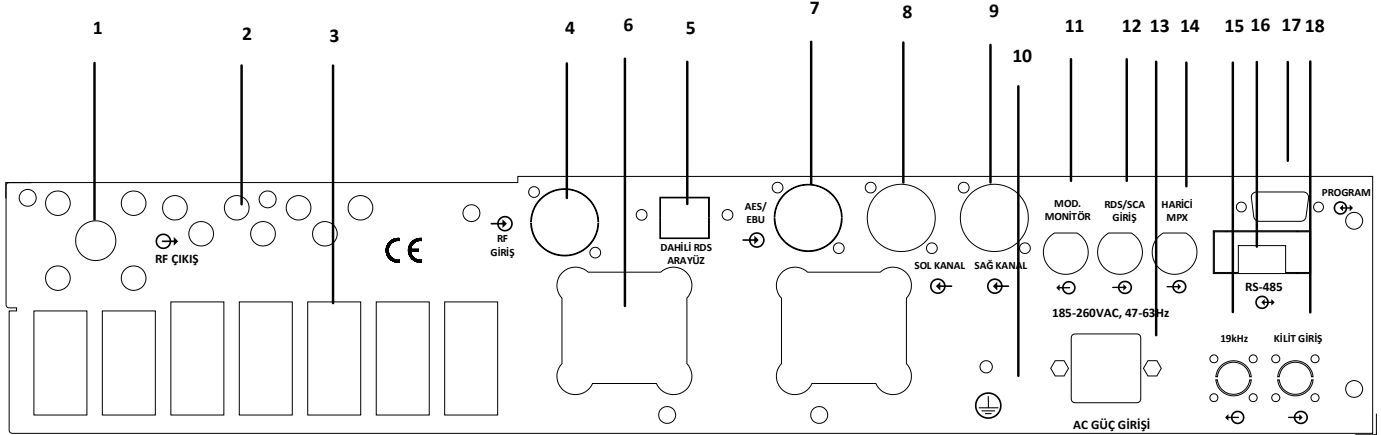
The AFM-2000 has one of the industry's clean exciters and an ultra-low distortion modulator for which go to make it a highly stable FM transmission system. Clean and market leading audio performance that will crush the competition.


- 1U 19" rack unit
- 4.3 inch TFT display
- Rotary encoder
- 0-5000 W adjustable RF output
- FM receiver built-in
- Powerful ALC circuitry
- Remote interface
- Antenna fault protection
- Slow rising RF output
- RF Power timer
- Audio Squelch (10-999 sec)
- Password protection
- Real time Log
- Low RF, Low MPX, High temperature, High SWR, VCO lock alarms
- 10/50/100kHz tuning steps
- RDS built-in (opt.)
- Audio monitoring through TCP-IP, UDP (opt.)
- AES/EBU input (opt.)

TECHNICAL SPECIFICATIONS	
Frequency	87.5 -108 MHz
Modulation	FM, 75kHz peak (180KF3E/256KF8E)
PLL Tuning Steps	10/50/100 kHz
Audio input level	-3.5 to +12.5dBm @75kHz deviation
Ext. MPX input level	-3.5 to +12.5dBm @75kHz deviation
AUX input level	SCA, -12.5 to +3.5dBm @7.5kHz deviation
	RDS, -24 to -8 dBm @ 2kHz deviation
Modulation distortion	< 0.03%, @75kHz dev.
MPX input Freq. Response	± 0.1dB, 30Hz-100KHz
Pre-emphasis	0 (FLAT), 25,50,75 uS selectable
Rated RF output power	5000W continuous
RF power ALC stability	±3
RF output connector	7/16 type 50Ohm
Audio freq. response	30-15kHz, ±0.1dB
S/N Ratio, Mono operation	30-20kHz, >78dB
	CCIR, >81dB
S/N Ratio, Stereo operation	30-20kHz, >75dB
	CCIR, >80dB
Harmonic & spurious	<70dB harmonic, <80dB spurious
Power supply	Single phase, 90-264VAC, 50/60Hz
Power consumption @ 5000W	7500W max.
Efficiency	>75%
Operational temp. range	0 to 35°C (-10 to +45°C extreme)
Dimension (WxHxD)	460x180x680 mm
Weight	18 kg



REAR PANEL DESCRIPTION



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| (1) R.F. ÇIKIŞ | RF output connector, 7/16-type |
| (2) AIR FLOW | Grid for the air forced ventilation |
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| (4) RF GİRİŞ | RF INPUT for amplifier models |
| (5) DAHİLİ RDS ARAYÜZ | Ethernet Input for Internal RDS (option) |
| (6) AIR FLOW | Grid for the air forced ventilation |
| (7) AES/EBU | Balanced XLR-3 connector for input in AES/EBU digital audio format. (optional) |
| (8) LEFT | XLR-3 connector, for balanced LEFT channel input |
| (9) RIGHT | XLR-3 connector, for balanced RIGHT channel input |
| (10)  | Earth Ground connection |
| (11) MOD. MONİTÖR | BNC connector output for Modulation monitor |
| (12) RDS/SCA GİRİŞ | BNC connector for RDS and SCA inputs |
| (13) AC GÜÇ GİRİŞİ | Standard IEC connector for mains supply |
| (14) HARİCİ MPX | BNC connector for external MPX input |
| (15) 19kHz | BNC output for the pilot tone. This can be used for |
| (16) RS-485 | Serial interface for monitoring |
| (17) PROGRAM | DB9 connector for programming controller |
| (18) KİLİT GİRİŞ | BNC input interlock connector: the exciter is forced in standby mode when the inner conductor is grounded. |