



AM/FM Broadcast Monitor . FMBM

Give your MAC some ears!

Davicom's AM/FM Broadcast Monitor offers a surprising number of advanced features in a compact, low-cost package. Remotely controllable through Davicom's MAC line of intelligent site monitoring systems, the FMBM can also be manually configured and operated.

It offers the following features:

- Synthesized tuning
- Non-volatile configuration storage
- On-site monitoring of transmitter power
- Off-air monitoring of receive signal strength
- FM deviation measurement and alarms
- Carrier frequency measurement and alarms
- RDS/RBDS decoding
- Balanced audio output on back panel and headphone output on front
- Alarm contacts for:
 - stereo absence
 - high deviation
 - low deviation
 - low power
 - carrier frequency drift
- All alarm levels are settable by the user, locally or remotely
- Full remote control and monitoring through any Davicom MAC unit via the USB interface

Designed for full and easy integration into the MAC's powerful control and monitoring structure, the FMBM gives you the benefit of remotely monitoring the key RF parameters of your AM or FM transmitter to ensure regulatory compliance.

FMBM SPECIFICATIONS

AM Band	Tuning range	520-1710 kHz
	Tuning step	10, 1 kHz selectable
FM band	Tuning range	88-108MHz
	Tuning step	200, 100, 50 kHz selectable
	Program de-emphasis	50 or 75 uS as set by internal jumper
Low-level input	Connector	F
	Input range	-70 to -33 dBm
High-level input	Connector	BNC
	Input range	-16 to +20 dBm
Carrier frequency drift measurement	Accuracy	± 0.3ppm for a temperature range of 0 to 50°C
	Resolution	100Hz
RDS/RBDS decoder	Type	PS, PTY, RT
Audio outputs	Type	Balanced
	Output impedance	600Ω
	Connector	Pluggable screw terminal
	Level	Preset to +8dBm and adjustable from 0 to +10dBm
Headphone output	Load Impedance	> 8Ω
	Connector	3.5mm
FM deviation monitor	Connector	Pluggable screw terminal
	Output impedance	600Ω
	Level	0 to 5Vdc for 0 to 150 kHz deviation
RF power monitor	Connector	Pluggable screw terminal
	Output impedance	600Ω
	Level	0 to 7Vdc
Alarm relays. Normally open isolated contacts that can be individually set to normally closed by internal jumpers	Connector	Pluggable screw terminal
	Alarm functions	Low power Frequency drift High deviation Low deviation Stereo absence
USB interface	Function	Allows remote control and continuous alarm monitoring through compatible Davicom MAC units Also used for firmware upgrades
Software remote control	Through MAC	Audio level adjustment (rear connection) Frequency Band FM peak-deviation limit FM deviation peaks-per-minute count FM low-deviation limit FM low-deviation timeout FM frequency-drift limit FM RF alignment Low-power limit AM low-modulation limit AM low-modulation timeout
Manual control	Via front panel pushbuttons	Same functions as via software remote control above plus: RF input selection Headphone volume adjustment Power reference level
Dimensions		1 RU, half width
Weight		1.0 kg (2.2 lbs)

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