

RAY C. EVANS
Collins Radio Company
Southern Regional Sales
P. O. Box 8026
Jackson 4, Mississippi
Telephone 353-9345

METRON 506A AMPLITUDE MODULATION MONITOR



Occupying only 5-1/4 inches of rack space, the fully transistorized Metron 506A Amplitude Modulation Monitor continuously measures modulation of the AM r-f carrier.

Meeting or exceeding FCC requirements, the 506A mounts in any standard 19-inch rack or cabinet. Frequently used controls are conveniently located on the front panel together with two easy-to-read illuminated meters for monitoring carrier level and percentage modulation.

Modulation peaks are indicated by a flashing lamp. Flashing level is adjustable from 0 percent to 100 percent modulation. Lamps operate at 60

percent of rated voltage to assure long life.

All external connections are made at the back of the unit. The r-f input may be made to either a coaxial receptacle or barrier type terminal strip. A remotely controlled modulation meter and/or remote flasher may be connected to terminals provided and may be switched in or out at will without affecting circuit calibration.

Two auxiliary audio outputs are provided. One of these is a high impedance, high level output for fidelity measurement; the other feeds a 600-ohm audio monitoring circuit.

Sold Nationally by Collins Radio Company

Cedar Rapids • Dallas • Los Angeles • New York International Division Dallas

SPECIFICATIONS

General	
Input impedance	75 ohms
Frequency range	0.5 to 1.6 mc
R-f power required	0.5 watts (6 to 20 v rms)
Power requirement	105 to 125 v a-c, 50 to 60 cycles, 10 watts
Dimensions	W 19", H 5-1/4", D 5" (W 48.26 cm, H 13.34 cm, D 12.7 cm)
Weight	10 lb (4.54 kg)
Modulation Percentage Meter	
Accuracy	±2% of full scale, modulating frequency 1000 cps
Response	±0.3 db, 30 cps to 100 kc ±0.1 db, 100 cps to 30 kc
Modulation Peaks Flasher	
Range	Continuously adjustable, 0% to 100%
Flash point	Flashes when negative modulation exceeds dial set point by more than 2%
Accuracy	±2% of full scale, 30 to 15,000 cps
Audio Monitoring Output	
Response	±0.5 db, 30 cps to 100 kc
Distortion	Less than 0.2%, 600-ohm load
Output voltage	0.5 v rms, 100% modulation with 600-ohm load
Fidelity Measuring Output	
Response	±0.5 db, 30 cps to 100 kc
Distortion	Less than 0.1%, 600-ohm load
Hum and noise level	At least 80 db below 1.5-v rms signal level
Output voltage	3.5 v rms at 100% modulation with load resistance exceeding 100,000 ohms shunted by capacitance of less than 500 mmf.