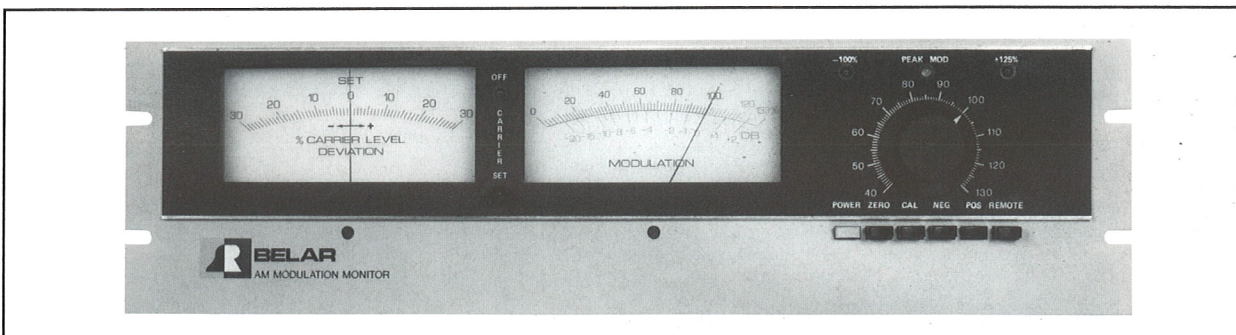




DESCRIPTION

The Belar AMM-2C Modulation Monitor is a precision, all solid-state AM demodulator designed to measure the modulation characteristics of AM broadcast transmitters over a frequency range of 260 kHz to 50 MHz. The AMM-2C utilizes a unique carrier-referencing system for the peak flasher indications. Peak flasher accuracy, as well as modulation alarm sensitivity, is independent of carrier level over more than a $\pm 30\%$ range. A built-in calibrator checks the accuracy of modulation readings. Isolated outputs are provided for the built-in modulation and carrier level alarms. Remote outputs are provided for all modulation indications as well as the carrier level.

FEATURES

- Separate 100% negative and 125% positive peak modulation indicators
- Peak indicator, modulation range from 40% to 130%, switchable polarity
- All peak indicators independent of carrier level
- Semi-peak-reading modulation meter responds accurately to short duration program peaks
- Built-in Carrier Level (Loss) and Modulation Level Alarms, both with dry relay contact outputs
- Built-in Modulation Calibration check
- Linear-phase detector filter provides accurate modulation indications without overshoot
- Switchable NRSC audio de-emphasis

SPECIFICATIONS

RF Frequency Range 260 kHz to 50 MHz
 RF Sensitivity 5 Vrms to 10 Vrms
 RF Input Impedance . . . 1000 Ω standard, 50 Ω optional
 RF Input Rear-panel BNC connector
 Modulation Meter Range 0% to 133%
 (switchable to either negative or positive modulation)
 Fixed indicators -100%, +125%
 Adjustable peak indicator range: 40% to 130%
 Modulation Accuracy $\pm 2\%$
 Envelope Pulse Response Overshoot <1%
 Modulation Level Alarm Adjustable threshold,
 fixed timeout (~30 seconds)
 Carrier Level Deviation Meter Range $\pm 30\%$
 Carrier Level (Loss) Alarm Alarms with a 30%
 drop from nominal carrier level
 Audio Monitoring Output +10 dBu (2.45 Vrms),
 600 Ω , active-balanced
 Audio Test Output (proof-of-performance) . . . 5 Vrms,
 rear-panel BNC connector
 Auxiliary Detector Output 5 Vrms
 Audio Response . . +0.0 dB/ -0.5 dB, 20 Hz to 15 kHz
 (detector response -3 dB at 50 kHz)
 Harmonic Distortion 0.25% maximum at
 95% modulation
 Signal-to-Noise Ratio . . . ≥ 80 dB (de-emphasis out)

Remote Outputs:

adjustable, +125%, -100% peak modulation indicators; aux. detector, carrier reference, remote modulation meter, remote carrier level meter, modulation level alarm & carrier level (loss) alarm

Operating Temperature 0°C to +50°C
 Power Consumption . . 6 watts, 100-240 V, 50-60 Hz
 Dimensions 5 $\frac{1}{4}$ " H $\times$ 19" W $\times$ 7" D
 Shipping Weight 11 pounds (5 kg)

Specifications are subject to change without prior notice.



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