FM Modulation Monitor

DSM-100P

FEATURES

- Digital AES3id Input Voltage: 1Vpp
- Digital FM Demodulation with 85dB SNR
- High Level, Antenna, and Composite Signal Measurement
- L/R Audio Difference Measurement
- Crosstalk and Separation Measurement
- AM Noise Measurements
- RF, Composite and Audio FFT Spectrum Analysis
- Metering of Total, Pilot, L+R, L-R, L/R Audio, 38KHz SubC
- Metering of RF RMS Values
- RJ-45 Ethernet Interface with Remote PC Software(option)
- Alarm Log History Record
- Detect Mode: Peak, RMS
- Dual LCD Display

INTERFACE

- Display ..... 800 x 480(5"), 320 x 240(3.5") Graphic LCD
- Analog Composite In/outputs ..... 3.5Vpp@100%, 10kΩ unbalanced, BNC Connector
- Analog Audio Outputs(Stereo)x2 ..... Max +10dBu@100% 600Ω balanced XLR Connector
- Digital Audio Outputs(Stereo) ..... AES-3ID 75Ω unbalanced, BNC Connector
- Headphone ..... 1/4" Phone Jack
- RS-232 ..... 9-pin Male D-Sub Connector
- Ethernet 10/100 Base-T ..... RJ-45 Connector
- Dimensions ..... 19" x 3.5" x 17.3", 2 EIA Rack Unit
- Power Requirements ..... 90 ~ 240V
- Operating Temperature ..... 0 ~ 45℃

SPECIFICATIONS

Inputs

DFrequency Range ..... 87.3 to 108.1MHz
Antenna Input ..... 75Ω, F-Type Connector(-70 ~ -30dBm)
High Level Input ..... 50Ω, BNC Connector(-35 ~ +20dBm)
Composite Input ..... 75Ω, BNC Connector(3.5Vpp@100%)

FM Demod

- Frequency Response ..... ≤ ±0.05dB, 20Hz to 60kHz
- SNR ..... ≥ 85dB

Stereo Decoder

Frequency Response (L and R) ..... ≤ ±0.05dB, 20Hz to 15kHz
SNR (Stereo) ..... ≥ 80dB

Spectrum Analysis(RF, Composite, Audio)

Dynamic Range 90dB
Sampling Bandwidth ..... Composite: 20Hz ~ 96KHz
Audio: 20Hz ~ 24KHz
RF : ±384KHz
L/R Crosstalk ..... ≥ 75dB

Modulation (Peak, Ave, Min) Metering

Reference ..... 100% modulation at 75kHz deviation
Total, L, R, L+R, L-R ..... 0 to 130%, 0.1% resolution
Pilot ..... 0 to 20.0%, 0.1% resolution

Metering

Reference ..... 0.0dB at 75kHz deviation
Total, L, R, L+R, L-R ..... +3.0 to -85.0dB, 0.01dB resolution
Pilot ..... 0.0 to -85.0dB, 0.01dB resolution
AM Noise ..... 0.0 to -85.0dB, 0.01dB resolution
L/R Crosstalk ..... 0.0 to -85.0dB, 0.01dB resolution
Separation ..... 0.0 to -85.0dB, 0.01dB resolution
38KHz SubC ..... 0.0 to -85.0dB, 0.01dB resolution
Audio Difference ..... 0 to 180Degree, 1Degree resolution

Indicators

Total Peak Modulation
Pilot Presence
Audio Phase Difference
RF Level

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DARBS Digital & Analog Radio Broadcasting System