

DSM-100P+

enhanced FM Modulation Monitor
with enhanced Remote Monitoring & Controlling



FEATURES

- **Digital FM Demodulation** with real time processing
- **Measurement:**
High Power & Low Power Signal Measurement
Metering of MPX, Pilot, L+R, L-R, Audio L/R, RDS, 38kHz Sub.
Metering of RF RMS Values
L/R Audio Difference/Crosstalk Measurement
Occupied Bandwidth/Multipath Measurement
Spectrum Measurement: RF, Composite & Audio FFT Spectrum
Band-scan Spectrum: 10kHz/20kHz/50kHz/100kHz Step
Scope Measurement: Stereo Measure & Oscilloscope Analysis
- **Alarm Monitoring:**
Low Signal, Multipath, MPX Peak, Audio Loss
Stereo/Mono Monitoring
Modulation History Display: MPX, Pilot, RDS, Audio L/R
Alarm Log History Record & Save
- **User Conveniences:**
Provides an external HDMI output port
Works based Windows10 Operating System
Supports Windows10 Remote Desktop Application
Provides USB ports for use of various applications

GENERAL

- **Dimensions(W x H x D)/Weight:** 485 x 85 x 356(mm)/3.5kg
- **Power(Voltage):** 100-240V, 50-60Hz
- **Power Consumption:** 25W

SPECIFICATIONS

- **RF Input**
Tuning Range: 87.3MHz~108.0MHz, 10kHz Step
Input Power Range: -30dBm~+20dBm (High Power)
20dBuV~80dBuV (Low Power)
Attenuator: Max. 30dB, 1dB Step
- **FM Demod.**
Frequency Response: ± 0.2 dB, 20Hz~70kHz
IF Filter Bandwidth: 180kHz @ Low Power Input
Dynamic Range: 90dB
- **Stereo Decoder**
Frequency Response (L/R): ± 0.1 dB, 20Hz~15kHz
SNR: ≤ 65 dB
THD+N: $\leq 0.03\%$, 20Hz~15kHz
Crosstalk: ≥ 65 dB
- **FFT Spectrum Analysis:** RF, MPX, Audio L/R
FFT Length: 8,192
Dynamic Range: 90dB
- **RDS Decoder:** RDS/RBDS
PS,PI,PTY,Date,Time,AC,M/S,TP,TA,Radio Text,Alternate Freq.

SIGNAL INTERFACE

- **RF Input**
High Power Input: 50 Ω Unbalanced BNC Connector
Low Power Input: 75 Ω F-Type Connector
- **Signal Output**
Analog MPX Output: 3.6Vpp @ 75 kHz, Single Tone
600 Ω Unbalanced BNC Connector
Analog Audio L/R Outputs: +6dBu @75kHz (Max. +12dBu)
600 Ω Balanced XLR Connector
AES3id Output: -6dBFS @75kHz
110 Ω Balanced XLR Connector

USER INTERFACE

- **Display:** 5.5" AMOLED, 1920X1080, Capacitive Touch
- **Communication Interface**
Ethernet: 10/100/1000 Base-T port, RJ-45
USB: 2.0 x 2 ports
Relays Output: D-Sub 15P Female Connector
1/2P-RF Input Alarm, 3/4P-Multipath Alarm
5/6P-MPX Peak Alarm, 7/8P-Pilot Alarm
9/10P-L Audio Alarm, 11/12P-R Audio Alarm
Encoder: Value Change & Alarm Occurrence Display through LED
- **Video & Audio Output**
HDMI Output: HDMI V2.0
Headphone Jack: 3.5mm Stereo(TRS)

- **Metering Accuracy**
RF Level
High Power: ± 1.0 dB @ -30dBm~+20dBm
Low Power: ± 1.0 dBuV @ 44dBuV~80dBuV
High Power Metering: RF Level ≥ -10 dBm
MPX: ± 0.2 dB, 10kHz~150kHz
L+R/L-R: ± 0.2 dB, 10kHz~75kHz
Pilot: ± 0.2 dB, 3kHz~7.5kHz
Audio L/R: ± 0.2 dB, 10kHz~135kHz
Low Power Metering: RF Level ≥ 44 dBuV
MPX: ± 0.5 dB, 10kHz~90kHz
L+R/L-R: ± 0.5 dB, 10kHz~75kHz
Pilot: ± 0.5 dB, 3kHz~7.5kHz
Audio L/R: ± 1.0 dB, 10kHz~90kHz
- **Audio Scope Analysis:**
Stereo Measure & Oscilloscope Analysis
Time Span: 20ms, 100ms, 500ms, 1s
Trigger Level: 0~100%, 1% Step