

REMOTE INTERFACE

DB44 is loaded with a wide number of useful features such as TCP/IP connectivity, Interactive WEB server, audio streaming and automatic alerts on out of predefined ranges in regards with the ITU-R. All the monitoring parameters can be easily customized via the visual control interface in regards with a specific customer's need. In case of any faults in the transmission the maintenance staff will be immediately alerted via E-mail or SMS. Adjustable triggers watch to avoid sending of fake alarm messages. This tool enhances the radio stations' quality control management.

DB44 - TCP/IP FM Monitoring Tool - Configuration **DEVA BROADCAST**

Main Settings CH1 CH2 CH3 CH4 CH5 CH6 Management Logout

Channel
 Enable:
 Frequency: 91.10 MHz
 Name: Power FM

Alarms Control
 Enable: RF MPX Left Right Pilot RDS All
 E-mail: RF MPX Left Right Pilot RDS All
 SMS: RF MPX Left Right Pilot RDS All

RF Alarm
 Range: 0 dBuV 100
 Thresholds: Low: 40 High: 60
 Trigger time: 60 s
 Release time: 60 s

MPX Alarm
 Range: 0 kHz 120
 Thresholds: Low: 50 High: 85
 Trigger time: 60 s
 Release time: 60 s

Left Audio
 Range: -60 dB +5
 Thresholds: Low: -30 High: 0
 Trigger time: 60 s
 Release time: 60 s

Right Audio
 Range: -60 dB +5
 Thresholds: Low: -30 High: 0
 Trigger time: 60 s
 Release time: 60 s

Pilot Alarm
 Range: 0 kHz 12
 Thresholds: Low: 7.0 High: 8.0
 Trigger time: 60 s
 Release time: 60 s

RDS Alarm
 Range: 0 kHz 9
 Thresholds: Low: 2.0 High: 5.0
 Trigger time: 60 s
 Release time: 60 s

The built-in DB44 Oscilloscope represents the observed signal change over time, enables you to visualize the most important signals participating in the process of demodulating and stereo decoding. Similarly to the Oscilloscope mode, Spectrum analyzer is a mode for spectral analysis of the input signal and is a part of the DB44 features. Spectral components of the selected signal are determined on the base of Fast Fourier Transform. The MPX Power measurement, which supports measurement data history is yet another DB44 great feature.

SPECIFICATIONS

RF INPUT	
Frequency Range	87.5 to 108 MHz, Frequency Agile
Step Increment	50 kHz
Antenna Input	50 Ω, BNC Connector, 10 dBμV sensitivity
Internal Attenuator	0, 10, 20 and 30dB, auto
Dynamic Range	0 dBμV to 100 dBμV
S/N	57dB, RF > 60dBμV, 30dB, RF > 10dBμV
METERING RESOLUTION & ACCURACY	
RF Level	0 to 95 dBμV; resolution - 0.1 dBμV accuracy - ±1 dB (10 to 85 dBμV)
Multipath	0 to 100%; accuracy - ±1%
MPX Deviation	±120 kHz; resolution - 0.1kHz accuracy - ±10%, ±5% typically
MPX Power	±12 dB; resolution - 0.1dB, 10 sec. integration; accuracy - ±0.2 dB
Audio Level	-50 to +5dB; resolution - 0.1dB; accuracy - ±5%
Pilot Level	0 to 12 kHz; resolution - 0.1 kHz; accuracy - ±0.5 kHz, 1 to 12 kHz
RDS Level	0 to 9 kHz; resolution - 0.1 kHz; accuracy - ±10% typ. and not guaranteed
AUDIO, MPX, PILOT, RDS LEVELS	
Validity	RF level preferably > 50dBμV
Multiplex Level	Peak level, 256 ksamples over 1 sec.
Audio Level	Peak level, 64 ksamples over 1 sec.
Pilot Level	Mean peak level, 256 ksamples over 1 sec.
RDS Level	Mean peak level, 256 ksamples over 1 sec.
STEREO DECODER	
Stereo Separation	>25dB, typical >30dB
De-emphasis	50 or 75μs, Selectable
THD	0.5%
OUTPUTS	
Audio stream	Icecast/Shoutcast compatible audio stream
Alarms	SMS, E-mail, SNMP
Headphone	1/8" (3.5mm) Phone Jack
GSM Modem	15-pin Male D-Sub Connector

RDS DATA DECODING	
Standards	European RDS CENELEC; United States RBDS NRSC
Error Correction & Counting	Yes
AF Decoding	Yes
CT (Time/Date)	Yes
PI, PTY, DI, MS	Yes
TA/TP	Yes
RT, PS	Yes
PIN, RT+, TMC	Yes
FFT SPECTRUM ANALYSIS	
Input	Composite MPX, Audio
Dynamic Range	80 dB
FFT Length	1024
Sampling Rate	256 kHz - Composite, 64 kHz - Audio
SCOPE ANALYSIS	
Input	Composite MPX, Audio
Trigger Mode	Auto, Fall
Dynamic Range	±120 kHz
Sampling Rate	256 kHz - Composite, 64 kHz - Audio
USER INTERFACE	
Web interface	Full monitoring and control; Interactive and easy to use
Indicators	3 LEDs (on front panel)
Headphone Output	1/8" (3.5mm) phone jack (on front panel)
TCP/IP COMMUNICATION	
Type	Ethernet 10/100M Base-T Port
Connector	RJ45 (on rear panel)
OPERATING CONDITIONS	
Temperature	10° to 60°C
EMC Immunity	6V/m
POWER REQUIREMENTS	
Power Supply	External, 12V/1A
SIZE AND WEIGHT	
Dimensions (W;H;D)	(125;31;160mm), (5";1.2";6.3")
Shipping Weight	1,5 kg



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