

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.

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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