



AES-RTX is a device for converting the digital audio signal in AES-EBU and vice versa. Its use is intended for systems with mixed technology, where in some cases the digital audio processing it is mandatory.

The particularity of **AES-RTX** is also to be able to amplify audio signals, displaying the level of appropriate bargraph precision. **AES-RTX** has the ability to implement upgrading software for future use with the simple aid of a download via PC with RS-232 serial port.

AES-RTX also allows to send alarm signals in case of absence of modulation transiting through a string of serial RS-232 port. The activation time of reset alarm that can be set through keyboard front from a minimum of 100 ms to a maximum of 59 seconds. On the front panel of the **AES-RTX** is also a bar graph of precision can display the audio level input. This bargraph displays the audio level according to DIN 45406.

The scale used for the bargraph ranges from - 40 dB to + 5 dB according to specification. There is also a scale which expresses the percentage of the level in function of the 100% modulation at 0 dB. Also on the front panel is an alphanumeric display and a keypad for access to configuration parameters. The dynamic range of the **AES-RTX** is 96 dB with a bandwidth that extends from 20 Hz to 16 kHz with frequency linearity of the measure in between + / - 0.5 dB. The technology used in the **AES-RTX** is fully digital making the apparatus particularly reliable in terms of precision and repeatability, eliminating the drawbacks associated with the traditional analog approach. Phenomena of aging, temperature drift and long term stability are completely overtaken by delegating all computational processes very fast microprocessors.

AES-RTX is supplied from network and from source to external battery. The container is 19" rack version 1Unit.

BF section

Bandwidth: 20 Hz to 22 KHz
Maximum Input Level: 12 dBu (8.7 Vpp)
Maximum Output Level: 20 dBu (22 Vpp)
THD + N: -75 dB at 400 Hz (Input at 0 dB gain)
Background noise: -80 dB (input to 0 dB gain)
Level: -50 dBu (7mVpp) to 5 dBu (3.9 Vpp) (Input at 0 dB gain)
Linearity: + / - 0.1 dB
Input coupling: Balanced XLR transformer
Output coupling: Balanced XLR transformer

AES-EBU section

Balanced XLR input according to specification.
Balanced XLR output according to specification.
Conversion rate: 192KHz maximum
Ancillary Data Extraction

Signaling

RS232: DB9 Male \pm 15kV electrostatic discharge (ESD) shocks.
TLC-TX: DB-24 female AMPHENOL.

Supply

Network: 95 Vac - 240 Vac Plug IEC320 integrated EMI / RFI filter.
Battery: 20 Vdc - 60 Vdc EMI / RFI filter integrated.

Size

Width: 1 Unity 19".
Depth: 300 mm connectors excluded.
Weight: 1.5 Kg.