

SPECIFICATIONS



CEQ™ 280a Computer-Controlled, MIDI Graphic Equalizer

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Frequency Response:
±1 dB, 5 Hz to 50 kHz

Distortion:
< 0.005% 20 Hz to 20 kHz (EQ Flat
bandwidth limited 10 Hz to 80 kHz)

Output Noise (EQ Flat):
< -94 dBu (ref 0.775V; 20 Hz to 20 kHz)

Dynamic Range (EQ Flat):
> 110 dB (20 Hz to 20 kHz)

Inputs:
Electronically balanced, XLR or 1/4"
phone TRS

Input Impedance:
> 10 K ohms

Input Common Mode

Rejection Ratio:
> 40 dB

Maximum Input Level:
+25 dBu (14V RMS) ref 0.775V

Outputs:
Electronically balanced, XLR or 1/4"
phone TRS

Output Impedance:
100 ohms

Maximum Output Level:
+19 dBu (7V) Hi-Z load (ref 0.775V)
+18 dBm 600 ohm load (1 mW)

Filter Frequencies:
32 Hz to 16 kHz on ISO centers

Gain Control Range:
±12 dB

Maximum Boost/Cut:
±12 dB in 12 dB range setting
±6 dB in 6 dB range setting

EQ Band Filter Q:
4.77

Display:
40-character x 2-line Liquid Crystal
Display

Power Consumption:
Domestic: 12 W, 60 Hz, 120 V AC
Export: 12 W, 50/60 Hz, 230 V AC

FEATURES

- 28-band graphic equalizer
- Constant EQ filters on $1/3$ octave, ISO centers
- Real-time analyzer
- Automatic room equalization
- Built-in pink noise
- Easy-to-read, 40-character x 2-line Liquid Crystal Display
- Nonvolatile storage of 128 EQ curves
- Nondestructive EQ curve addition
- EQ curve compare; ±12 dB in 1 dB steps, ±6 dB in 0.5 dB steps

- Combination XLR-1/4" phone input connectors
- Electronically-balanced inputs and outputs
- Software security lock
- Feedback finder
- MIDI controllable
- MIDI compatible with the original CEQ™ 28/CEQ™ 28R
- Relay front panel and power-off bypass
- Switchable 40 Hz subsonic filter
- Single I.U. standard rack space
- Internal power supply

DESCRIPTION

The CEQ™ 280a is a computer-controlled, MIDI graphic equalizer designed to meet the needs of sound reinforcement installations. The circuit design assures reliable, long-term operation and smooth, trouble-free installation.



ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The graphic equalizer shall have electronically balanced XLR and 1/4" phone type connectors for input and output. The unit shall have a 40-character x 2-line LCD. The unit shall have front panel buttons to access the EQ, RTA, Bypass, Global, Store and Recall features. In addition, it shall have six buttons for navigating through the various parameters and screens.

The unit shall be packaged in a rugged steel chassis 19" wide by 13/4" high by 115/8" deep. The unit shall have a frequency response of 5 Hz to 50 kHz ± 1 dB. The unit shall have a THD not to exceed 0.005%. The unit shall have an output noise value less than -94 dBu. The unit shall have a dynamic range greater than 110 dB. The unit shall have an input impedance greater than 10 K ohms. The unit shall have a rejection ratio greater than 40 dB. The unit shall have a maximum input level of +25 dBu. The unit shall have an output impedance of 100 ohms. The unit shall have a maximum output level of +19 dBu (Hi-Z load), +18 dBm 600 ohm load. The unit's filter frequencies shall be 32 Hz to 16 kHz on ISO centers. The unit shall have maximum boost/cut of ± 12 dB in 12 dB setting and ± 6 dB in 6 dB setting. The unit shall have an EQ band filter Q value of 4.77. The unit shall be called the Peavey Architectural Acoustics Division model CEQ™ 280a.

LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

Damage resulting from improper installation, interconnection of a unit or system of another manufacturer, accident or unreasonable use, neglect or any other cause not arising from defects in material and workmanship is not covered by this warranty. The warranty is valid only as to products purchased and installed in the United States and Canada.

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Features and specifications subject to change without notice.

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