

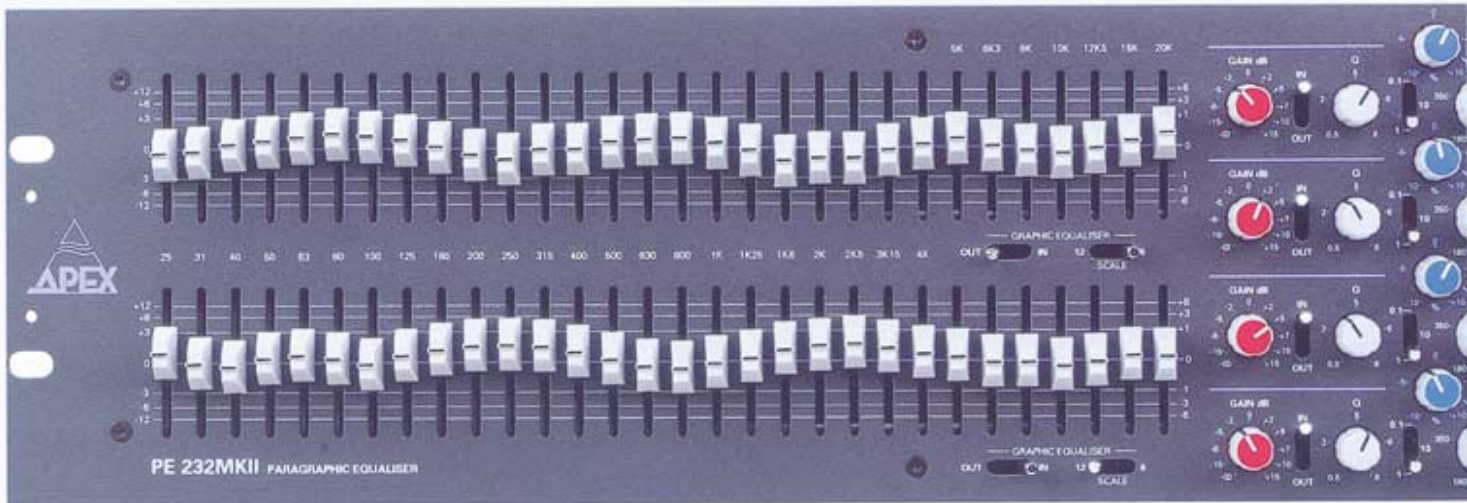
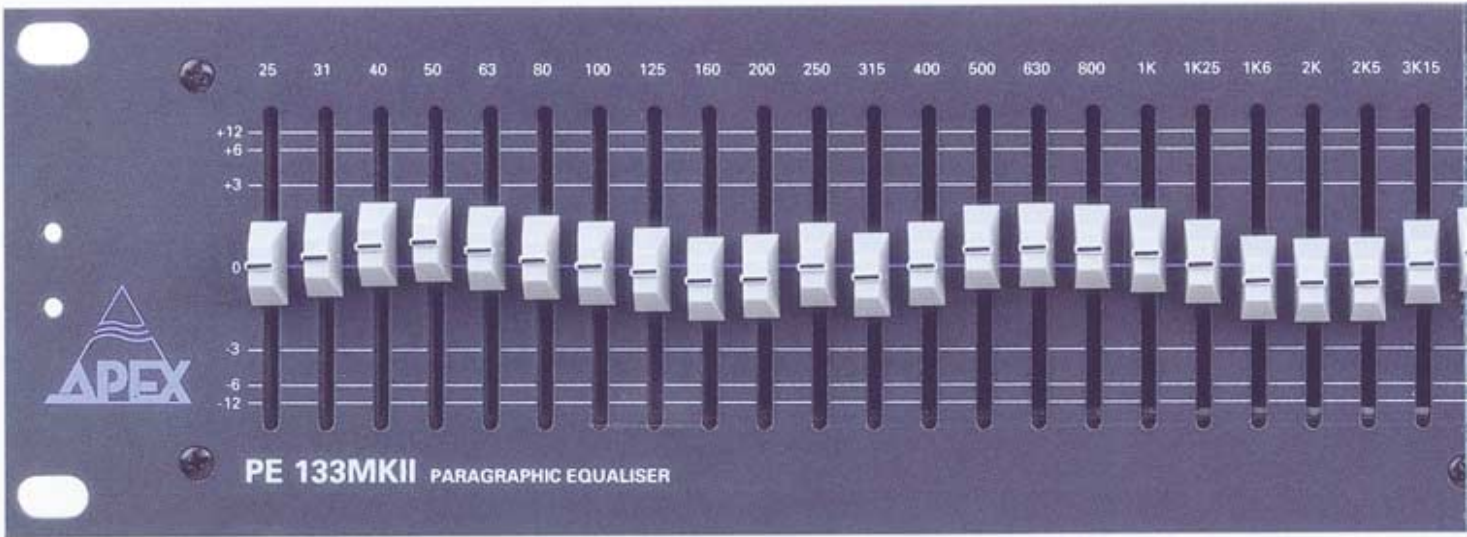
PE SERIES

PE 133MKII AND PE 232MKII

PARAGRAPHIC EQUALISER



PE SERIES

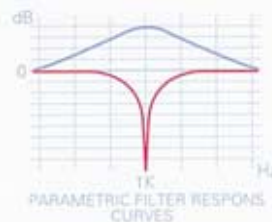


PARAMETRIC EXCELLENCE

Parametric filtering enables versatile control over all filter parameters: "Q", gain and frequency.

The principal advantage is that the filters can be positioned and applied anywhere the user requires in the frequency spectrum, unlike a graphic which ties the user to the frequency points and cues determined by the designer.

A $-\infty$ to +15 dB of nonreciprocal "constant Q" is achieved by adding (boosting) or subtracting (cutting) the output of a variable-state bandpass filter from the filter's input. This technique results in broader boost than cut curves, enabling the creation of much narrower notches than is conventionally achievable. Because they are virtually inaudible, they do not exhibit the sound colouration associated with traditional reciprocal filters. They enable the removal of a frequency from the audio spectrum without disturbing the original overall response of the sound wave, invaluable in all applications where potential hum or feedback are causing problems. Typically this enables an increase in gain of 15 dB before feedback occurs. Each centre frequency selector incorporates a vernier control with a range of $\pm 10\%$, allowing the ultimate system fine-tuning.



OUTSTANDING FEATURES

Electronically balanced input with All potential overload points an extremely fast "peak-peak" over "peak-stretching" circuit for clear Reliability is the hallmark of any programme and advanced engineering chassis design to eliminate the stress damage to Special attention has been given The musicality of previous designs of A by users, and the PE continues this tradition better than Finetuning your system is essential. The refinement on an In the event of power failure to the unit ensuring that signal



SPECIFICATIONS

INPUT:

- Electronically balanced
- Absolute overload point : +22dBm
- Impedance : 10 KOhm (each leg)
equal impedance for "+" and "-" legs
- CMRR better than 65dB (20Hz-20KHz)
- XLR-3 type connector
connections : 1 signal ground; 2 hot (+); 3 cold (-)

OUTPUT:

- Electronically balanced and floating, simulating transformer output with app. 10 KOhm to ground impedance for each leg
- Max level: +21 dBm into 600 ohms
- Impedance: 51 ohms (each leg)
- Output symmetry balance better than 65dB (20Hz-20KHz IEC)
- XLR-3 type connector
connections : 1 signal ground; 2 hot (+); 3 cold (-)

PERFORMANCE:

- Frequency response: +0 -0.5 dB, 20Hz-20KHz (graphic eq IN) PE 133MKII
- Frequency response: +0 -0.5 dB, 40Hz-20KHz (graphic eq IN) PE 232MKII
- THD: <.01% (20Hz-20KHz)
- Noise: <-94dBm (typ. -98dBm), graphic and parametric equalisers in circuit (0dB settings)
measurements : 22Hz-22KHz RMS unweighted
- Level control: -∞ to +6dB
- Level control '0dB' cal. accuracy: +0.2dB (overall gain input to output)
- Overload indicator: lights for approximately 200ms if the instantaneous peak voltage at any point in the equaliser comes within 2dB of clipping

FILTERS:

Graphic equaliser:

- 30 ISO center frequencies: 25Hz-20KHz 1/3 octave
- Center frequency tolerance: +-1% (typically better than +-0.5%)
- Q tolerance: +-1%
- Max boost/cut: 6 or 12dB +-0.5dB reciprocal
- Switchable

Parametric filters

- Tuning ranges: 18-200Hz, 180Hz-2KHz, 1800Hz-20KHz
- Vernier control: +-10% of main frequency control.
- Range of Q adjustment: 0.5 to 8
- Range of level adjustment: -∞ to + 15dB (typ -45 to + 15.5 dB) non reciprocal. Smaller cut than boost curves through addition and subtraction of parametric bandpass filter output to filter input
- Each filter individually switchable

High pass filter: (PE 133MKII - PE 232MKII)

- Frequency range: 15-300Hz (-3dB frequencies)
- Type: maximally flat 12dB/octave
- Switchable

Low pass filter: (PE 133MKII)

- Frequency range: 2-40KHz (-3dB frequencies)
- Type: maximally flat 12dB/oct
- Switchable

POWER REQUIREMENTS:

- Voltage: 110/120/220/240V 50/60Hz
- Consumption: 20VA PE133MKII
- Consumption: 30VA PE232MKII
- IEC type connector

SIZE:

- 482mm(19 inch) wide x 89mm(3.5 inch) high x 255mm(10 inch) deep
PE 133MKII
- 482mm(19 inch) wide x 133mm(5.2 inch) high x 255mm(10 inch) deep
PE 232MKII

WEIGHT:

- app. 5Kg PE133MKII
- app. 7Kg PE232MKII

Your local dealer