

2-channel 8-band Fully Parametric High Definition Equaliser **PARA EQ 4/8**



This is renewed version of the our famous
PARA EQ 2/4.

It now has far more better sound quality,
and also offers to You much more functions,
including **the ability to configure some of it`s functions by You!**

Main features of the **PARA EQ 4/8** :

-  Large variety of created AFC`s
-  Very large amount of the regulation
-  Flexibility and comfort in use
-  Clear and transparent sound
-  Ultra-low level of harmonics (THD<0,00032%)
-  Very wide bandwidth
-  Automatic failsafe "cold" relay bypass

PARA EQ 4/8 is built with using the principle of the "**proportional Q**" and it also has **nonlinear** dependance of the amount of altering AFC in depending of the angle of controls`s rotation ("the more rotation - the faster altering"), and also the possibility of switching ALL of it`s bands into the BELL and SHELF modes, with **retaining** the ability of the **altering "Q"** of the filters.

All the filters within PARA EQ 4/8 are highly sophisticated and absolutely independent, without interacting with adjacent frequencies.

Each of two identical channels of the PARA EQ 4/8 includes :

-  High-quality ultra-low noise input preamplifier,
-  4 independent overlapping bands;
-  Output level control;
-  Multy-functional dual level indicator.

Input preamplifier is intended for the matching input source`s level with the dynamic range of the equaliser, for the using it maximally.

It may regulate the input gain by +/-10dB.

Each band has:

-  Control of the band`s center frequency **TUNE**,
-  Control of the band "Q" **WIDTH**,
-  Control of the amount of boost and cut **-/+**;

 Individual switch for every band,

 Mode switch **BELL/SHELF**.

For the LOW and HIGH bands this switch is placed on the front panel.

For the two middle bands this switching, if needed, may be done by internal jumpers.

Also by internal jumpers may be defeated the working of EQ in "proportional Q" mode, independently on each band.

Output control is intended for matching equaliser's output level with the level which is need for the next device.

It may regulate output level from zero to maximum amount.

Three-colored level indicator is "two-stepped", it indicates the average level of the signal by two lowest LED's, and at the same time it's *peak* level in all important points within the equaliser by upper red LED.



Rear panel

On rear panel of the PARA EQ 4/8 are placed input and output connectors JACK 1/4".

Inputs and Outputs may be balanced or unbalanced - as You Want!.

This may be set independently for the any inputs and outputs by internal jumpers.

Power connector and GROUND LIFT are also placed on the rear panel.

Specification of the PARA EQ 4/8 :

Bandwidth :1 Hz to approx. 1MHz

In audio band:

AFC deviation from linear no more than..... 0,02 dB

PFC deviation from linear no more than..... $\pm 4^\circ$

THD+N @ f=1kHz and $U_{in} = +20\text{dBu}$:

All bands OFF:.....0,0003%

All bands ON:.....0.0008%

Output noise @all controls centered:

All bands OFF:- 97dbu (-102dbA)

One band ON:.....- 92dbu (-96dbA)

Two bands ON:- 90dbu (-92dbA)

All bands ON:- 88dbu (-90dbA)

S/N ratio @all controls centered:.....-110db

Regulation :

Max boost and cut in BELL mode :+/-18dB.

Max boost and cut in SHELF mode :+/-40dB.

Band`s tuning range :

LOW :20 Hz to 1 kHz.

LOW-MID :200 Hz to 4 kHz.

HIGH-MID :500 Hz to 10 kHz.

HIGH :2 kHz to 24 kHz.

Bands`s WIDTH range : 2,5 to 0,1 oct.

Max level :

At unbalanced input :+30dbu.

At unbalanced output :+21dbu.