roger schult
german audio lab

W2393 TiltBaxxEQ (api 500 ® - system)

The TiltBaxxEQ W2393 in 500 format offers a wide range of options for tonally influence to any audio signal with just a few tone controls. The Ti-EQ determines the sound spectrum around a selected center frequency by the use of a Niveau Filter, and the Baxandall tone control adjusts the distribution of the low and high frequencies. Together, these filters provide a powerful tool to quickly and effectively manipulate the sound spectrum.

This Niveau-Filter „Ti“ changes the distribution of bass and treble simultaneously, but in opposite directions, by up to 5 dB around a switchable mid-frequency (500, 700 or 1100 Hz). This filter function is also called tone scale or niveau filter. A gain control with a range of +/- 5 dB was added to the filter for level adjustment.

The two Baxandall tone controls were equipped with fader controls and allow a level change of +/- 12 dB per band. The frequency rang can be switched from 80 Hz to 110 Hz for the low band and from 2 kHz to 5 kHz for the high band, using two three-stage toggle switches. The middle position of the toggle switch deactivates (bypass) the respective filter and also serves to check the set filter effect.

Due to the circuit design, the high and low bands may influence each other by up to 4 dB depending on the setting of the Baxandall tone controls.The "on" switch can be used to immediately check the effectiveness of all settings. This illuminated pressure switch bypasses the entire circuit via a relay (hard bypass) without annoying background noise.An illuminated "on"-switch allows removing the EQ from the signal path by means of a high-quality relay ("hard bypass").

As all Roger Schult products, the W2393 TiltBaxxEQ is hand-crafted and precision-engineered in Germany.

Technical Data
08 / 2022

Low band EQ, adjustable frequency	80 Hz / filter bypass / 110 Hz via switch
Gain, continously variable	+/- 12 dB range via fader
Ti-EQ / Niveau Filter	
Gain, continously variable	+/- 5 dB range via rotary control
Frequency, 3-position switch	500 Hz / 700 Hz / 1100 Hz
High band EQ, adjustable frequency	2.0 kHz / filter bypass / 5.0 kHz
Gain, continously variable	+/- 12 dB range via fader
on-switch	enable / disable filter module hard-bypass

Input - electronically balanced

Reference input level	+6 dBu
Maximum input level	+22 dBu
Input impedance	10 kOhm

Output - electronically balanced

Reference output level	+6 dBu
Maximum output level	+24 dBu / (0.002% THD+N)
Output impedance	40 Ohm
Gain at linear setting	0 dB at 1 kHz (+/- 0.2 dB)
Signal-to-noise ratio (UWTD)	88 dB
Signal-to-noise ratio (WTD)	95 dB
Harmonic distortion	THD+N / 0 dBu 0.0026% THD+N / 6 dBu 0.0015%
Frequency range	20 Hz - 40 kHz (+/- 0.1 dB)
Delay time of hard bypass relais	max. 3 ms
Power supply	+/- 16 V über api ® - System + max.90 mA / -16V max. 40 mA
Module dimensions	115 mm x 172 mm (HxT)
Faceplate dimensions	19”/ 3 RU, 1.5“ x 5.25“ (width x height)
Faceplate finish	aluminium, black anodized
Weight	0.305 kg

Abb.:W2393