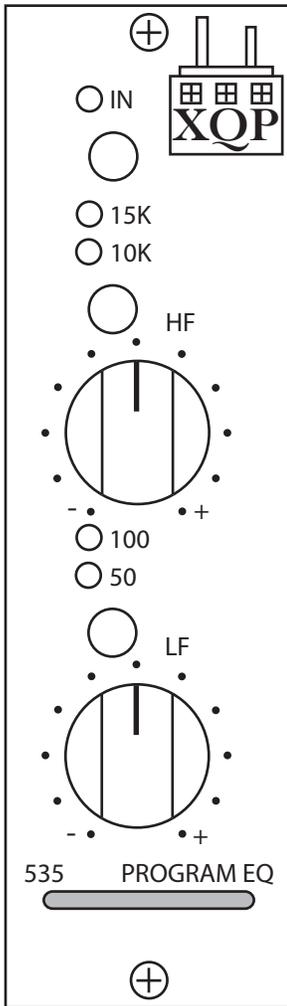


# XQP 535 Program EQ

Owner's Guide



## INTRODUCTION

Thank you for purchasing the XQP 535 Program EQ. The 535 is based on the active version of the classic Baxandall equalizer circuit. Two shelving bands provide very smooth equalization at the top and bottom of the spectrum.

The 535 is a VPR module (hopefully you are already aware of this) designed to fit into the common 500 series racks originated by API. It follows the standard API pinout.

The 535 has received API's VPR Alliance certification.

## PINOUT

1. Chassis
2. + Output
- 3.
4. - Output
5. Audio Common
- 6.
- 7.
8. - Input
- 9.
10. + Input
- 11.
12. + 16 VDC
13. Power Ground
14. - 16 VDC
- 15.

## OPERATION

The 535 is simple to use. Each band has a pushbutton switch which gives you a choice of two frequencies. The HF band is switchable between 10kHz and 15kHz. The LF band is switchable between 50Hz and 100Hz.

And now a little confession...these numbers mean very little. The curves of a Baxandall equalizer begin around 1kHz and peak at points chosen by the designer. In the case of the 535, these points are outside the 20 - 20kHz region. The two points of the HF bands, for example, are about 35kHz and 45kHz. Both sound like pretty stupid points to be concerned with. But because the slopes are at about 4dB per octave at full boost, the difference between these two points are perhaps more meaningfully described by frequencies our ears are accustomed to hearing.

A fixed high-pass filter rolls the low end off at about 20Hz when the controls are set flat and prevents ridiculous amounts of subsonic buildup when the LF control is boosted a lot.

According to standard equalizer protocol, the HF and LF controls will give flat response when positioned straight up, with cut to the left and boost to the right. The amount of boost and cut is dependant on the frequencies chosen, therefore no numbers are provided on the panel.

Finally, the IN switch selects the entire circuit in the module. Switching it out provides a complete hard-wire bypass. Because there is gain built into the output amplifier, an internal trimmer is factory set at unity gain.

## WARRANTY

Like all XQP products, the 535 has a rather ridiculous ten-year warranty. It is an absurd length of time, but there is really no reason a well-made electronic device should not last many years longer than that. XQP is not a giant corporation who puts profit above all else. We are normal guys who like to know that a company whose products we buy will take care of us if something goes wrong and not treat us like pests. We want to treat our customers that way (not like pests - the other way). The ten-year warranty is the best way we know of to communicate that desire.

## SPECIFICATIONS

Input impedance: 43k $\Omega$  balanced  
Output impedance: 50 $\Omega$  balanced  
Frequency response: 22 - 100kHz (-3dB)  
Max. output level: 22dBu  
THD (no gain reduction): <0.002% @ 1kHz  
Noise: -80dBm, unweighted  
Max. boost/cut: 10 to 14dB  
Bypass: hard wire  
Current requirement: 110mA @ +/- 16v

Specifications subject to change without our knowledge.



XQP. Nice guys. Yes we are.  
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