

# Digital signal processor DSP - APS-37

AutoVoice BR-200  
Product datasheet

## Features

- Integrated functionalities:  
Equalizer, digital delay, ambient noise sensing, feedback reduction, digital volume control
- 15 different configurations in each module
- EQ:30-band equaliser (+/- 12 dB) for correction and weighting of the signal
- ANS: Gain 24 dB
- DY: Delay function
- FBR: Max. 4 narrow-band filters

## Description

### **DY - Compensate for sound propagation delay!**

Owing to the speed of propagation of sound, the relevant sound waves do not reach the listener at the same time if there are 2 speakers at different distances away. The DSP Processor delays the signal of the speaker nearer to the listener by a time which can be adjusted as required to achieve synchronisation of the sound.

### **EQ - Optimise sound quality!**

Using the DSP Processor as an equaliser, it is possible to individually compensate at 30 point frequencies.

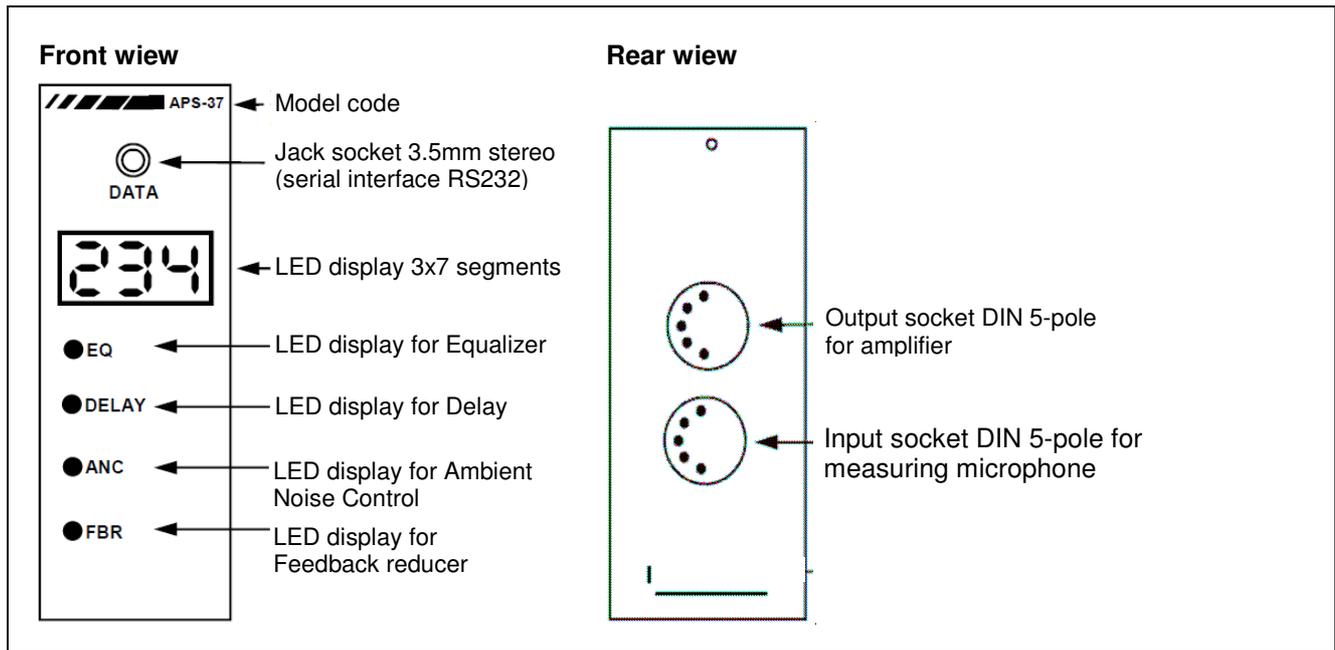
### **ANS - Automatic volume compensation for ambient noise!**

A measuring microphone constantly monitors the background noise in the broadcast area and forwards the signal to the DSP Processor for evaluation. The DSP Processor automatically adjust the volume of broadcasts and background music to remain a sufficient level above the background noise.

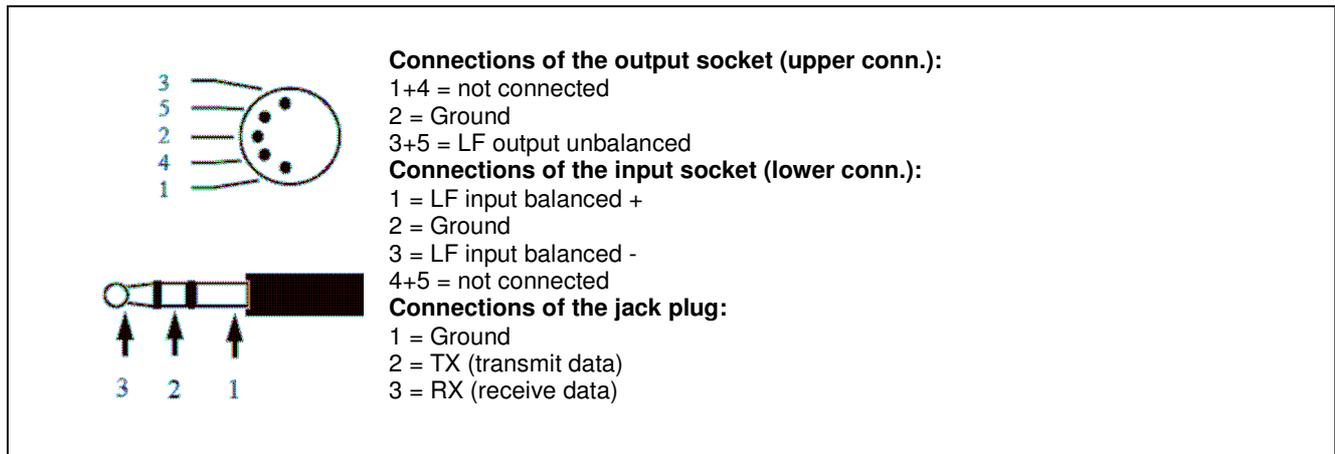
### **FBR - Eliminate microphone feedback!**

Microphone howling occurs if sound from the microphone is recorded, amplified in the central PA unit and radiated back to the microphone via the speakers. The DSP Processor automatically detects the disturbing resonant frequencies and eliminates these by activating corresponding digital filters.





**Connections**



Part number	Description
116-BRG-APS37	Digital signal processing module
116-BRG-SW37ANS	Software key for APS-37 ANS
116-BRG-SW37DY	Software key for APS-37 DY
116-BRG-SW37EQ	Software key for APS-37 EQ
116-BRG-SW37FBR	Software key for APS-37 FBR

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