



## EQ 1090 System Controller – Technical Specifications (rev2 01/05/01)

### General Detail.

The EQ 1090 is a two input, four output, system controller that is designed to optimise the performance of the CS 1090 front of house system. Its main features include:

- Left and right balanced line inputs
- Input limiters (internally selectable range)
- Left and right mid/top balanced outputs
- Left and right bass balanced output
- Crossover point at 220Hz (4<sup>th</sup> order Linkwitz Riley)
- 6th order EQ High pass filter FC = 40Hz
- Tamper proof internal selection for features.

### Technical Specification

THD:	• Less than 0.01% 20Hz – 20KHz 0dBV
En (output):	• 22Hz – 22KHz -90dBV (typically)
Mains Voltage:	• 230V 50/60Hz
XLRs wired:	• Pin 1 = Earth Pin 2 = Hot Pin 3 = Cold
Dimensions (1 unit):	• 483mm (W) x 44.5mm (H) x 220mm (D)
Packaged dimensions:	• 495mm (W) x 62mm (H) x 305mm (D)
Weight:	• 2.5kg (3kg when packed)

### Feature Selection

To select or make adjustments to the controller settings, you will need to remove the controller's lid (6 off pozi screws). You then have the following options available to you.

- Limiter threshold (selectable between **-6dBv** to **+9dBv**)
- High pass out put drive level (selectable between **0dB** and **-6dB**)

All settings are detailed on labels inside the controller's lid. Standard factory settings are: Limiters **0dBu**

### Limiter settings

When calibrating the limiter setting to your amplifier input gain, the following information may be useful

- **-2dBv = 0.8 VOLT, 0dBv = 1 VOLT, +3dBv = 1.4 VOLT.**

The equation to calculate other settings is:

$$\text{LEVEL (dBv)} = 20 \times (\text{LOG (V)}) \quad \text{OR} \quad \text{LEVEL (V)} = 10^{(\text{LEVEL (dBv)} / 20)}$$

### Miscellaneous

- This product is supplied with a UK specification mains lead. This is packaged in the cardboard tube at the front of the controller.