



## PRODUCT OVERVIEW

The G400 is a professional 4 channel noise gate that can be operated as 4 separate processors or linked as two independent stereo pairs. In Link mode, Channel 1 and 3 provide Master control and 'rms summing' is used to ensure that signals from both the linked channels operate the gate.

Each channel has fully variable controls for Filter Frequency, Threshold and Release. Range is switchable to provide either full muting (-80dBu) or a more subtle level of signal attenuation (-20dBu).

Two Attack modes are available; Fast or Slow and Release is manually adjustable. In-built sidechain 'auto-level-sensing' and Hold circuitry ensure that false triggering and chatter are kept to a minimum. High and Low pass filters are included and can be used for a wide range of frequency conscious gating applications. A LISTEN facility allows the filters to be easily tuned by ear. Each channel also has a sidechain insert with front panel indication when an External Key jack is plugged in.

Led indicators are provided for Above-Below Threshold, Bypass and Link.

All inputs and outputs are electronically balanced and can be switched between +4dBu and -10dBV operating levels.

## SPECIFICATIONS

### ELECTRICAL

Frequency response: 20Hz to 20kHz (+0, -0.5dB)  
 Input Impedance: 20k balanced  
 Maximum Input Level: +20dBu  
 Input-Output Level: +4dBu or -10dBV switched  
 Output Impedance: 75R balanced  
 Load Impedance: > 600R  
 Max. Output Level: +20dBu

THD: < 0.05% (1kHz, +4dBu)  
 Signal to Noise Ratio: > 90dB  
 +4dBu out, 22Hz- 22kHz

Threshold: -50dB to +20dB  
 Range: -80dBu or -20dBu

Attack: Fast:  50uS  
 Slow:  1mS  
 Release: 10mS to 4S variable  
 High Pass Filter: 22Hz to 3kHz variable  
 Low Pass Filter: 250Hz to 30kHz variable

Power Requirement: 15VA, 115/230V AC,  
 50/60Hz

### PHYSICAL

Input Connectors: XLR 3 pin (Pin 2 hot)  
 Output Connectors: XLR 3 pin (Pin 2 hot)  
 Power Connection: IEC 3 pin socket,  
 Detachable lead

Dimensions (mm): 482 (19") W  
 164 (6.5") D  
 44 (1.75") H - 1U

Weight:  2.9 kg, 6lbs  
 Shipping Weight:  3.6kg, 8lbs

Temperature Range: Operating 0°C to 50°C  
 Storage -30°C to 75°C

## ARCHITECTS & ENGINEERS SPECIFICATIONS

The G400 shall be a 1U unit providing 4 channels of Frequency Conscious noise gating. Channels 1&2 and 3&4 can be linked for stereo operation with Channels 1 and 3 providing master control.

Each gate section shall have fully variable Threshold, Release, Hi-pass and Low-pass sidechain filters. Attack shall be switched between Fast and Slow modes with manually adjustable Release.

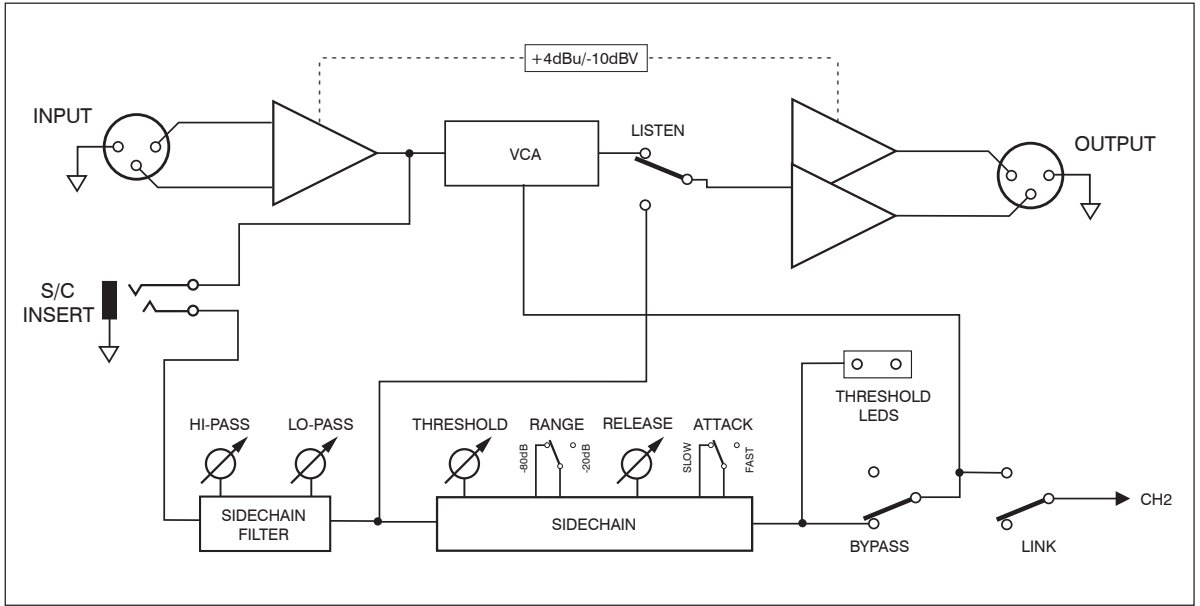
The sidechain shall include a Listen mode so the Filters can be tuned by ear.

Above and Below threshold leds shall be provided to give a visual indication of gate operation. Bypass and Link switches shall have led indicators.

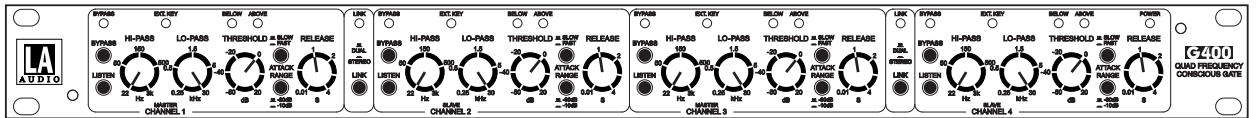
Inputs and Outputs shall be balanced on XLR connectors and operating level shall be switchable between +4dBu and -10dBV. Each channel shall have a Side Chain insert point on TRS jack.

The Gate shall be constructed in accordance with the directives encompassed within the 'CE' regulations and so marked. The Gate shall be the LA Audio G400.

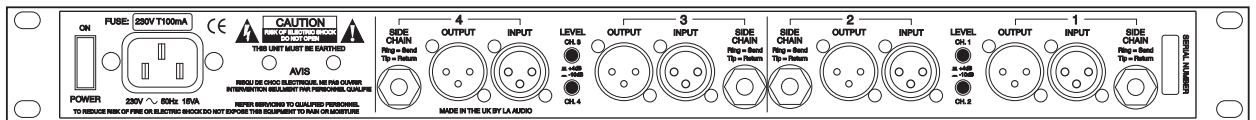
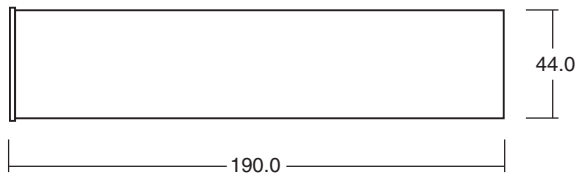
### BLOCK DIAGRAM



### DIMENSIONS



483.0



442.0