



PRODUCT
S•GATE 4

DESCRIPTION
GATE/DUCKER

SERIES
S•CLASS

CATEGORY
SIGNAL PROCESSING



GENERAL DESCRIPTION

The S•Gate 4 is a four channel Expander/Noise Gate with frequency sensitive triggering, offering unparalleled control and sonic transparency impressing the most critical listeners. Never before have so many features been packed into a single rack space unit with four noise gates - period. The S•Gate 4 is a powerful tool for live sound and recording, enabling you to clean up your mix by eliminating hums, buzzes, noisy tracks and microphone bleed. S•Gate 4's DFT (Dual Filter Trigger) enables pinpoint accuracy by letting you control the exact frequency that will open the gate. A full complement of envelope controls including Threshold, Attack, Release, Hold and Range facilitate a wide range of applications from a subtle clean up of a vocal track, to a drastic effect like gating reverb chambers.

- > Stereo Link Switch for channels 1 & 2 and 3 & 4.
- > Advanced circuit design, utilizing low noise operational amplifiers and high quality VCAs.
- > Servo balanced inputs and outputs on XLR and 1/4" connectors.
- > High quality 41 position detent pots and backlit switches.
- > Heavy-duty construction providing reliable performance session after session, performance after performance.
- > Three-year extended warranty.

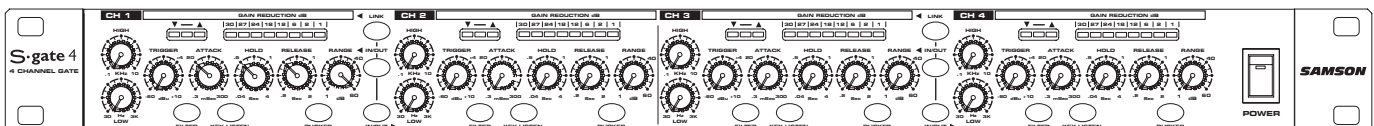
FEATURES

- > Full featured, four channel Noise Gate with Expander and Ducker on each channel in a singlespace, 19" rack mount unit.
- > Extensive envelope control including Threshold, Attack, Hold and Release control for each channel.
- > DFT (Dual Filter Trigger) for precise and predictable triggering.
- > Range control for Ducking.
- > Three stage Gate Open and Closed LED display.
- > Key input with Key Listen switch on each channel.
- > Eight Segment Gain Reduction Meter.

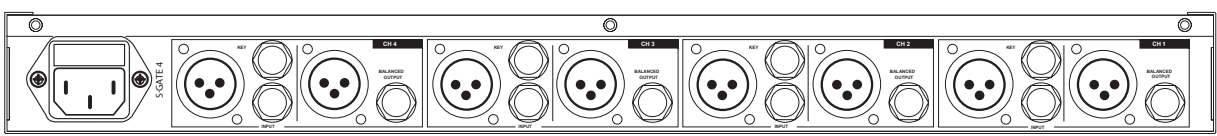
ARCHITECT'S & ENGINEER'S SPECIFICATIONS

The Samson S•Gate 4 shall be a 4 channel expander/gate in a single 19 inch rackspace. The gating controls shall be variable threshold, attack, hold, release and range with gate open and gate closed indicators. Gain reduction LED's are also available to indicate the gating action. The rear panel shall have both XLR and 1/4 inch inputs and outputs on all channels. There shall be a key input on all channels. On the front panel there will be a key listen switch. High pass and Low pass variable filters shall be available on all channels to filter the signal entering the gate circuit for more accurate gating. A ducker switch will be available on all channels to switch the gate action to a duck action for voice over applications. Stereo link switches are available between channels 1 and 2 and between channels 3 and 4 to create stereo gates with a single set of controls. Bypass switches are also available on all channels. A standard IEC cable shall be supplied for AC power connection.

FRONT PANEL



BACK PANEL



PRODUCT SPECIFICATION SHEET



SERIES
S•CLASS

DESCRIPTION
GATE/DUCKER

CATEGORY
SIGNAL PROCESSING

S•GATE 4 SPECIFICATIONS

System Specifications

Frequency Response 20Hz to 20kHz +/- 0.5 dB
 Dynamic range..... 95 dBu, un-weighted, 22 Hz to 22 kHz
 THD 0.008 % typ. @ +4 dBu, 1 kHz
 Crosstalk..... 90dB, 22 Hz to 22 kHz
 Detector..... RMS

Gate

Trigger range variable (-50 to +20 dB)
 Attack..... variable (0.3 to 3000ms)
 Hold variable (0.01 to 4 sec.)
 Release variable (0.02 to 5 sec.)
 Range variable (0 to 100 dB)

DUCKER Section

Range variable (1 to 100 dB)

Function Switches

Link Linking two channels for stereo operation. Channel 1 becomes master for Channel 2. Channel 3 becomes master for Channel 4.

Filter
 Key Listen
 Ducker
 In/Out

Meters & LED's

Gain Reduction 8 segment LED display: 30 / 27 / 24 / 18 / 12 / 6 / 2 / 1 dB
 Gate Activity..... 3 segment LED display: green-open; yellow-hold; red-closed

Audio Input

Connectors..... XLR and 1/4" TRS jack
 Impedance 20k Ohm balanced, 10k Ohm unbalanced
 Nominal Operating Level
 Max. Input Level..... +21 dBu, balanced and unbalanced
 CMRR Typ. 40dB, >55dB @ 1kHz

Audio Output

Connectors..... XLR and 1/4" jack
 Impedance 60 Ohms balanced, 30 Ohms unbalanced
 Max. Output Level..... +21 dBu, balanced and unbalanced

Power Supply

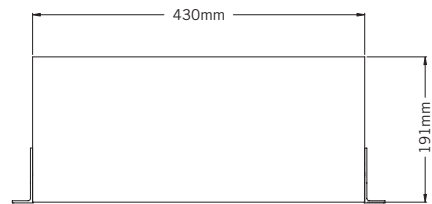
Mains Voltages/selectable USA/Canada ~120 V AC, 60 Hz
 U.K./Australia ~240 V AC, 50 Hz
 Europe ~230 V AC, 50 Hz
 Fuse 100-120 V AC; 250 mA (slow-blow) 200-240 V AC: 125 mA (slow-blow)
 Power Consumption 5 Watts
 Power inlet Standard IEC receptacle / with fuse

Size

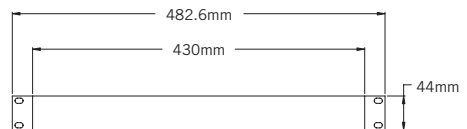
Dimensions 1 3/4" H x 19" x 7 3/4"
 (44.5mm x 482.6mm x 188mm)

Weight

Net Weight 5.25 lbs.(2.4 kg)
 Shipping Weight 7.5 lbs.(3.4 kgs)



TOP



FRONT