



“We have seen the future...and we can fix it”

STRAIN GAUGE PHONO CARTRIDGE & PREAMPLIFIER SYSTEM



TOP: Model SG-810 full featured SG preamp & multi-function preamp;
LEFT: Model SG-400 & SG-410;
RIGHT: SG-600 & SG-610 (full display models.)

Available Preamplifier Models

- ◆ **SG-810** - Full function preamp system featuring the SG input plus 4 line inputs, tape monitor, Remote Control & Manual control for input switching, volume, mute and power. Complete with Strain Gauge circuitry & cartridge performance displays.
- ◆ **SG-610** - Dedicated SG Preamp Same as SG-810 without input switching.
- ◆ **SG-600** - Dedicated SG Preamp Same as SG-610, without Remote Control.
- ◆ **SG-410** - Dedicated SG Preamp - Remote Control & Manual for volume, mute & power - without performance displays.
- ◆ **SG-400** - Dedicated SG Preamp - Manual volume, mute & power - without performance displays.



- ◆ Frequency response to 50 KHz
- ◆ Line level outputs, Fixed and Variable, Balanced and Unbalanced (RCA output jacks)
- ◆ Automatic “Cue Up” muting (rear switch defeatable)
- ◆ Remote control for volume, mute, power (models SG-610, 410) and input switching (SG-810)
- ◆ Front panel “light-touch” switches for power, manual muting (& input switching on SG-810)
- ◆ Lucite volume knob changes color to indicate the state: Red (standby); Yellow (auto-mute); flashing Yellow (manual mute); Blue (unmuted - playing)
- ◆ Front panel illumination level controls for automatic and manual light levels

Strain Gauge Phono Cartridge

- ◆ Ultra-light tracking force with extreme precision
- ◆ Ultra low moving mass (no coils/ magnets or iron used to generate the signal)
- ◆ Compatible with standard “4 wire” tone arm wiring
- ◆ Replaceable Nude “Contact-Line” Nude Elliptical and Bonded Elliptical Styli available
- ◆ High Compliance suspension allows compatibility with any tonearm
- ◆ VTA and Azimuth adjustable on the side of the cartridge body

Strain Gauge Cartridge



System Price includes Strain Gauge Cartridge and SoundSmith SG Preamp

TECHNICAL SPECIFICATIONS: Strain Gauge Phono Cartridge Systems

What is a "Strain Gauge" cartridge, and as a vinyl enthusiast and music lover, why should I be interested??

◆ **Accuracy.** In all other cartridges, the stylus is connected to (and must move) a "moving mass" such as a magnet, iron or armature to generate a voltage. Due to inertia, this mass keeps the stylus from staying in perfect contact with the groove walls; it jitters and bounces. If the stylus can't stay in contact with the groove walls, you can't hear what's truly on the record.

◆ The Strain Gauge doesn't have a large "moving mass" to contend with. Instead, two tiny silicon beams sense the cantilever position, and change electrical resistance. There is nothing keeping the stylus from staying in intimate contact with the record groove walls. No jittering, no bouncing. This is only one reason why the Strain Gauge is so exciting.

◆ To further the Strain Gauges' exacting performance, our new body design allows the user to easily adjust the VTA (vertical tracking angle) and Azimuth using screwdriver slots in the side of the cartridge body itself.

◆ Unlike other high-end cartridges, the Soundsmith's Strain Gauge cartridge has user replaceable styli available in various configurations and compliances.



*SG-400 & SG-410 Preamplifier
SG-600 & SG-610 Preamplifier*



SG-810 Preamplifier (Back)

Soundsmith SG preamps:

◆ Our Lucite Volume control changes from yellow to blue when the system senses a record being played as we feature user defeatable "automatic mute/unmute". This circuit also protects against a loud pop or transient if the stylus is dropped on the record; it also eliminates the start-up pops when recording to analog or digital mediums. When manual mute is selected, the control slowly flashes yellow.

◆ The Soundsmith's SG preamps are line output devices, and feature both balanced and unbalanced outputs via RCA jacks. They are complete cartridge preamps; you do not need an additional RIAA preamp. Any of our preamps can be used directly into an amplifier, or line input. All models are sonically identical.

◆ Our three top models (SG-810, 610 and 600) feature novel cartridge performance displays: force per groove wall, record eccentricity and downward tracking forces.

◆ Our entry level models, SG-400 & SG-410 do not feature cartridge performance displays or front lighting intensity control.

All preamplifier models are 16" x 16" x 3.5" high; external power supply is 8" deep, 3" tall, 6" wide. *Soundsmith's Strain Gauge cartridge is sold with one of five models of specialized preamp designs.*



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