



SVS2000™

A full-featured, high performance weight indicator for in-process weighing and batching or inventory weighing applications.

TECHNICAL SPECIFICATIONS



FEATURES AND BENEFITS

Quick Config

Adjusts system parameters and precalibrates unit without special load cells.

Sentry™ DSP Filter

Separates mixer and plant vibrations from weight changes. This provides accurate and reliable weight readings.

High-speed, High-resolution Weight Conversion

Performance for demanding applications with up to 21-bit resolution.

Alphanumeric Backlit LCD Display

Simple, understandable operator messages eliminates special coding/decoding, cryptic setup and diagnostic messages.

Displays the weight as a bar graph or digital readout.

NEMA-4X Enclosure

ABS or optional stainless steel offers the right protection for your environment.

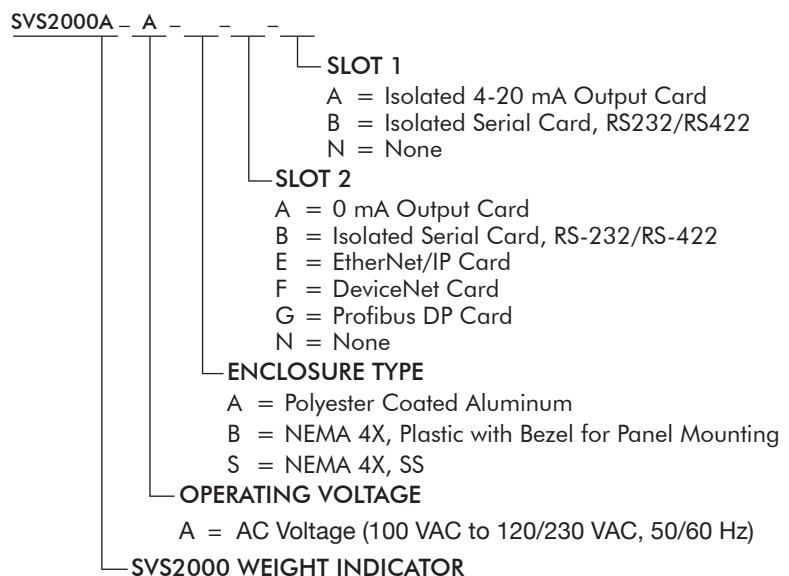
The SVS2000™ accepts input signals from half- or full-bridge strain gage load cells through a high resolution (up to 21-bit) analog-to-digital converter. Resolution and gain are adjustable for optimal system performance. Weight is displayed at the indicator and the data can be serially polled from a master device. Analog and digital outputs can be generated from the inputs to the SVS2000 to provide auxiliary controls.

The SVS2000 includes setpoint preact, digital interfaces and Kistler-Morse's Sentry™ DSP filter which provides stable, accurate readings under a variety of mixing conditions or plant vibrations. Sentry digitally separates the vessel weight changes from the vibrations and dynamic conditions often experienced on vessels with mixers. This provides stable and accurate weight readings. Its flexibility allows you to optimize system performance so it won't be fooled by sudden weight changes like other filter systems.

Using Quick Config, the SVS2000 is easy to setup and calibrate without test weights or special load cells. Responses to simple Quick Config questions provides the SVS2000 with the information needed to set up and calibrate the system for your application. Within minutes, the SVS2000 provides usable weight information. Later, when convenient, a more accurate calibration is easily obtained by moving a known quantity of material.

The SVS2000 provides easy system configuration and expansion to meet future requirements. Optional digital interfaces include Ethernet/IP, Profibus DP, DeviceNet® and RS422 serial.

HOW TO ORDER



SPECIFICATIONS

FUNCTIONAL

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|---------------------------|--|
| Voltage - Operating Range | AC Power: 115 VAC \pm 10%, 50/60 Hz; 230 VAC \pm 10%, 50/60 Hz 30 VA |
| Operating Temperature | -4° to 122° F (-20° to 50° C) |

PERFORMANCE

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|--------------------------|--|
| Transducer/Sensor Input | All Kistler-Morse half-bridge sensors, full-bridge foil gage |
| Excitation | Programmable between 5 and 13 volts @ 400 mA |
| Resolution | Selectable 16 bits (1 part in 65,536) to 21 bits (1 part in 2,097,152) in 1 bit increments |
| Conversion Speed | 16 bits = 17 ms, 17 bits = 20 ms, 18 bits = 25 ms, 19 bits = 34 ms, 20 bits = 50 ms, 21 bits = 100 ms |
| Span | Programmable between \pm 3.0 V @ 12 V excitation, Gain = 1 \pm 19.5 mV @ 10 V excitation, Gain = 128 |
| Temperature Stability | Zero 1 ppm/° C; Span 5 ppm/° C |
| Common Mode Rejection | 92 db min @ DC; 150 db min @ 60 Hz |
| Normal Mode Rejection | 100 db min @ 60 Hz |
| Multi-Vessel Remote Tare | |
| Relay Output | 2 relay outputs; Form "C" SPDT, programmable, 10 A 110 VAC, 8 A 230 VAC non-inductive; for motors and other large inductive loads, contractors rated for the load are required. |

PHYSICAL

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|---------------------------------|--|
| Display | Back lit alphanumeric liquid crystal, one line of 16 characters, selectable bar graph or engineering units format |
| Programming/ Parameter Entry | Integral 19-key sealed membrane tactile keypad |
| Setup | Menu-driven prompts |
| Memory | Non-volatile RAM |
| Enclosure | Designed to meet NEMA 4X ABS or NEMA 4X 304L SS |
| Humidity | 1% to 95% (non-condensing) |
| Storage | -4° to 140° F (-20° to 60° C) |
| Dimensions | ABS version: 6.375" x 11" x 5.68" (161.91 mm x 279.4 mm x 144.27 mm) SS version: 7.87" x 9.84" x 5.91" (199.9 mm x 249.94 mm x 150.11 mm) |
| Mounting Hole Pattern | ABS version: 2.5" x 10.4" (63.5 mm x 264.16 mm). SS version: 5.31" x 9.13" (134.87 mm x 231.90 mm) |
| Shipping Weight | ABS version: 6 lbs (2.6 kg). SS version: 11.3 lbs (5.1 kg) |

OPTIONS

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| PCBs | RS-422, RS-485: (optical isolation standard), baud rate 1200, 2400, 4800, 9600 or 19.2K. PLC interfaces: DeviceNet (polled slave), Profibus DP, Ethernet I/P. Analog Output: 0-20 or 4-20 mA, 14 bit resolution, 500 VAC isolation, maximum load 600 ohms with internal loop supply |
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APPROVALS

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| | CE, UL (US and Canada): General Purpose |
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