

# WEIGH-TRONIX

Provides an analog signal output for use with computers, programmable controllers, chart recorders, panel meters or similar devices.



## SP-100 Analog Signal Processor

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The signal processor excites the scale's Weigh Bar® transducers, conditions the output and provides an accurate analog signal proportional to weight.

## Features and benefits

**Low cost**—Eliminates expensive indicators in applications such as batching, blending, system process control or inventory which require only an accurate signal for data logging and recording

**Multiple excitation capability**—Drives one to eight Weigh Bar transducers

**Sense amplifier**—Insures Weigh Bar measurement accuracy by compensating for temperature-induced changes in cable resistance

**Isolated output**—Interface via two-conductor shielded cable

**On-board adjustments**—Coarse / fine zero, coarse / fine span and damping

**Watertight enclosure**—Conforms to NEMA 4 standards for washdown

## Specifications

### Dip-switch selectable outputs:

**Voltage**

0-1 VDC or .2-1 VDC  
0-5 VDC or 1-5 VDC  
0-10 VDC or 2-10 VDC

**Load**

5000 ohms per volt  
or greater

**Current**

0-5 mA or 1-5 mA  
0-20 mA or 4-20 mA  
0-50 mA or 10-50 mA

**Load**

0-2400 ohms  
0-600 ohms  
120 ohms

**Accuracy:**  $\pm 0.1\%$  of load

### \*Power input:

100 to 130 VAC, 48 to 62 Hz or  
200 to 260 VAC, 48 to 62 Hz

### Signal input:

Dip-switch selectable  
.75 mV to 30 mV (corresponds to Weigh Bar outputs  
of .05 mV/V to 2 mV/V)

**Excitation:** 15 VDC  $\pm$  0.5 VDC

**Excitation load:** 1 to 8 350-ohm Weigh Bar transducers

**Excitation stability:** 0.01% over a range of 50 °F

**Zero temperature coefficient:**  $\pm 0.20$  microvolts/ °C

**Span temperature coefficient:**  $\pm 20$  PPM/ °C

**Output ripple:**  $\pm 0.01\%$  F.S.

**Temperature range:** -20 to +130°F (28.9 to 54.4°C)

**Humidity:** 0 - 90%

**Dimensions:** 8"W x 10"H x 6"D steel cabinet

**Warranty:** Two-year limited warranty applies

\* Specify power and input when ordering.

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