

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	Load
0-1 VDC or .2-1 VDC	5000 ohms per volt
0-5 VDC or 1-5 VDC	or greater
0-10 VDC or 2-10 VDC	
Current	Load
0-5 mA or 1-5 mA	0-2400 ohms
0-20 mA or 4-20 mA	0-600 ohms
0-50 mA or 10-50 mA	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 ± 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: ± 0.20 microvolts/ °C

Span temperature coefficient: ± 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.

Weigh-Tronix

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