

# SP 200A, 300A

OEM Signal Processor

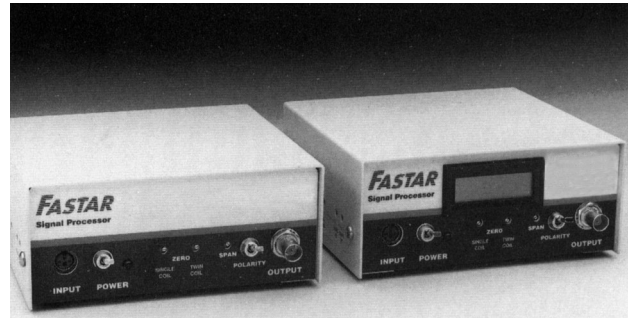


The SP 200A and SP 300A signal processors provide complete signal conditioning for Fastar/Hydrastar transducers. The transducer connector plugs into a jack on the front panel. A front panel BNC connector provides the output signal for a meter or other device. The SP 300A includes a built-in 4½-digit LCD display.

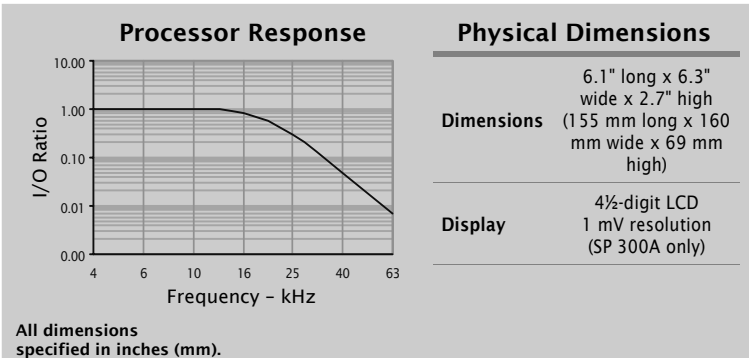
Both processors have a rear panel switch for selecting 115 or 230 VAC. The units have front panel zero and span adjustments. A polarity reverse switch allows you to change polarity of the output signal. Output is from 0 to ±10 VDC (adjustable).

## FEATURES & BENEFITS

- Complete signal processing for Fastar/Hydrastar coils
- Adjustable zero and span
- All signal conditioning in one compact unit
- Easy to connect and simplified settings
- Bench-top unit



## DIMENSIONS AND RESPONSE



## Technical Specifications

### ELECTRICAL

<b>Input Power</b>	115 Volts AC ±10%, 50/60 Hz, 5.5 VA 230 Volts AC ±10%, 50/60 Hz, 5.5 VA (switch selectable)
<b>Output</b>	Span: 5-20 VDC adjustable (5-16 V for HS1000) DC Offset: ±10 VDC adjustable
<b>Resolution</b>	0.02% of Full Scale
<b>Carrier Frequency</b>	112 kHz
<b>Frequency Response</b>	0 to 15 kHz, -3 dB point
<b>Phase Shift</b>	lags < 1°/100 Hz 30 μS delay (motion to output)
<b>Output Noise and Ripple</b>	< 0.01% of Full Range (RMS) plus 1 mV
<b>Connections</b>	miniature circular DIN for Fastar transducer input, BNC jack for output signal, IEC connector for AC power

### PERFORMANCE

<b>Operating Temperature Range</b>	-30°F to 140°F (-35°C to 60°C)
<b>Max Temp Coefficient</b>	Scale: ±0.02%/°F (0.04%/°C) Null: ±0.02%/°F (0.04%/°C)
<b>Warm-up</b>	30 minutes
<b>Adjustments</b>	zero, span, twin coil zero, polarity reverse switch, transducer temperature compensation



Fastar and related products are protected by one or more of the following patents: U.S. 4,667,158; 4,327,350; 4,368,575; 4,912,409; 4,864,232; 4,866,378; 5,068,607; U.K. 2054954; Japan 1498268; France 8014767; 8101087. Additional U.S. and foreign patents pending.

### WARRANTY

All Sentech Inc. products are warranted against defective materials and workmanship. This warranty applies for a period of one year from the date of delivery to the original purchaser. Any product that is found within the one year period not to meet these standards will be replaced or repaired at the discretion of Sentech Inc. No other warranty is expressed or implied. Although Sentech Inc. manufactures its products to exacting specification standards, we assume no responsibility for their misuse. Sentech Inc. accepts no liability for damages, incidental or punitive, in applications using our products. *Please note:* It is solely the user's responsibility to properly install and maintain transducers. Sentech Inc. manufactures its products to meet stringent specifications and cannot assume responsibility for those consequences arising from their misuse or unauthorized modification.

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