

SP 150

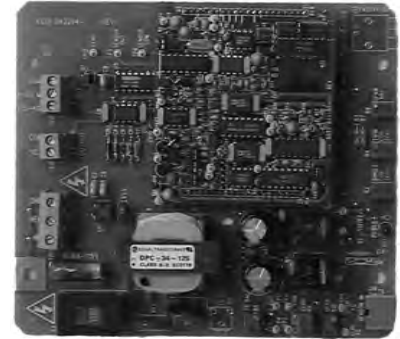
OEM Signal Processor



SENTECH INC.

The SP 150 is intended for low volume OEM's and system integrators that need a ready-to-use processor which can be easily mounted in electrical cabinets or a small NEMA enclosure. It is ideal for machine tool and process control applications for FASTAR/HYDRASTAR family transducers.

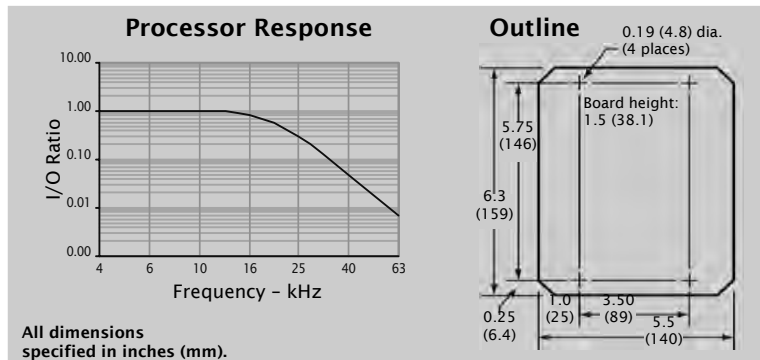
It can be powered from either 115 or 230 VAC and has all user adjustments and connections available on the board. Its output is either an adjustable 0-10 V or 4-20 mA.



FEATURES & BENEFITS

- Complete signal processing for Fastar/ Hydrastar coils
- Unidirectional or bidirectional output
- Adjustable zero and span
- Easy electro-mechanical calibration
- Useful for long cable runs to control/display electronics

DIMENSIONS AND RESPONSE



Technical Specifications @ 2.5 kHz

ELECTRICAL

Input Power	115 Volts AC $\pm 10\%$, 50/60 Hz, 5.5 VA 230 Volts AC $\pm 10\%$, 50/60 Hz, 5.5 VA
Output	Span: 5-20 VDC adjustable (5-16 V for HS1000) DC Offset: ± 10 VDC adjustable
Resolution	0.02% of Full Scale
Carrier Frequency	112 kHz
Frequency Response	0 to 15 kHz, -3 dB point
Phase Shift	lags $< 1^\circ/100$ Hz 30 μ S delay (motion to output)
Output Noise and Ripple	$< 0.01\%$ of Full Range (RMS) plus 1 mV
Connections	screw type terminal strips for AC power, voltage output, current output; miniature circular DIN for Fastar transducer input

PERFORMANCE

Operating Temperature Range	-30°F to 140°F (-35°C to 60°C)
Max Temp Coefficient	Scale: $\pm 0.02\%/^\circ\text{F}$ (0.04%/°C) Null: $\pm 0.02\%/^\circ\text{F}$ (0.04%/°C)
Warm Up	15 minutes
Adjustments	single coil zero, span, twin coil zero, output polarity, 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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