SPECTROTILTtm – RS232 Electronic Inclinometer

Spectron Systems Technology is proud to announce the release of the SPECTROTILT_{Im} RS232 Electronic Inclinometer. By combining a single axis / hybrid electrolytic tilt sensor, with custom digital electronics and software, Spectron has successfully spanned the gap between cost and performance. Features include a +/-60 degree angular sensing range, on-board linearity and temperature correction, ESD and EMI protection, aluminum housing, all in a hermetically sealed package.

The angular range, scale factor / resolution, and number of readings internally averaged (ie: filtering), can all be custom tailored to satisfy most applications. The viscosity of the fluid inside the sensing element can also be altered, to decrease susceptibility in high vibration environments. In addition, the digital output signal is ideal for long cable runs, eliminating concerns over signal loss and noise.



Applications

- Construction Equipment (Boom Angle, Safe Load Indicators)
- Road Graders and Pavers (Blade Angle)
- Wheel Alignment (Caster and Chamber measurement)
- Antenna Position (Satellite Dish Elevation Angle)

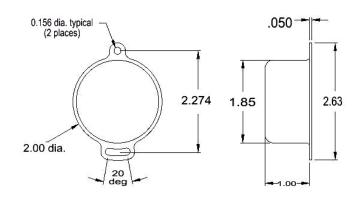
General Specifications

Input Voltage	
Accuracy	Input Current 20mA
	Accuracy

^{*} The output is transmitted in RS232 format, 9600 baud rate, at CMOS logic levels (0 and +5Vdc). The most and least significant bytes are transmitted at 15msec intervals.



Physical Dimensions (inches)



vertical mounting shown!

Electrical Connections

Black = Ground

Red = +7 to +14Vdc (unregulated)

White = Data output line (referenced to Ground)

Ordering Information

Part Number Description

SSY0185-VDS Vertical mount

SSY0185-HDS Horizontal mount

Consult factory for further technical information!

SPECTRON SYSTEMS TECHNOLOGY INC.



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^{**} Accuracy includes all effects, and is defined as the maximum output deviation from the absolute input angle.