

The SPECTROTILT™ RS485 / 12 bit Electronic Inclinometer offers unparalleled accuracy and value. 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 two available tilt ranges, +/-11.3 degrees or +/- 45 degrees, on-board linearity and temperature correction, ESD and EMI protection, aluminum housing, all in a hermetically sealed package. 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)

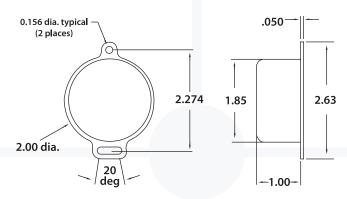
### **General Specifications**

Tinput Voltage
Tilt Range+/-11.3 deg+/- 45 deg Resolution:0.0032480.011721 Accuracy:+/-0.06 deg+/-0.06 deg (@+/-6 deg )+/-0.11 deg (@+/- 12 deg)+/-0.18 deg (@+/- 45 deg) Output at null (zero degrees)0 counts
Temperature Range  • operating -40° to +80° C  • storage -55° to +125° C
Temp sensor output:

<sup>\*</sup> The output is transmitted in RS485 format, 9600 baud rate 8 data bits, 1 stop Bit, even parity, 13 bit, Hexadecimal format

### Physical Dimensions (inches)

• vertical mounting shown!



# **Electrical Connections**

Black = Ground

Red = +5 to +30Vdc (unregulated)

**Green =** A (RS485) **Blue =** B (RS485)

#### **Ordering Information**

Part Number	Description
SSY0185-VDS12- RS485-11	Vertical mount
SSY0185-VDS12- RS485-45	Vertical mount

<sup>\*\*</sup> Accuracy includes all effects, and is defined as the maximum output deviation from the absolute input angle.