

The Fredericks Company Product Selection Guide

The purpose of this document is to guide you through the process of selecting a tilt measurement product from The Fredericks Company. It also allows us to more easily assist you in choosing a solution that will be the best for your application.

If you have any questions, please feel free to email us at sales@frederickscom.com or call 215-947-2500. It is not required that you fill out all sections so please feel free to leave any of them blank. We appreciate your interest in our products.

Please provide a detailed description of your **application** for the tilt measurement unit. A more detailed description will allow us to provide more accurate suggestions (ex. The tilt measurement unit is being used to measure the tilt angle of a solar panel in an outdoor environment where it is not protected from the elements. Its output will be read by a PLC which is 50 feet away and which has the ability to read analog or serial RS-232 output).

Application Description:

Please choose how many **axes** you would like to measure (ex. a device needs to be positioned in the x and y plane, indicating the dual (2) axis measurement option).

Other

Please select the **angle range** you would like to measure (ex. a device needs to be positioned between $\pm 90^\circ$, indicating the $\pm 90^\circ$ measurement range option).

Other

Please select the **interface** for the output of the sensor (ex. the sensor output will be read through an RS-232 interface, indicating the RS-232 output option).

Other

Please select the **housing** material for the sensor (ex. the sensor needs to be in an aluminum housing, indicating the aluminum option).

Other

Please select the **linearity** for the output of the sensor. Linearity is defined as the the maximum deviation from a linear output as a percentage of the measured range (ex. 0.5% linearity is required, indicating the $< 0.5\%$ option).

Other

Please select the **repeatability** for the output of the sensor. Repeatability is defined as the maximum deviation in output when the sensor is tilted and then returned to its original position (ex. 0.1° repeatability is required, indicating the < 0.1 degree option).

Other

Please describe the **sizing requirements** for the tilt measurement unit in as much detail as possible (ex. the tilt measurement unit must fit within a rectangular space with length, width, and height dimensions of 10 cm x 10 cm x 5 cm).

Please provide a **supply voltage** range for the tilt measurement unit (ex. the supply voltage range for the tilt measurement unit will be 5 V dc).

Please provide the **operating temperature** range in degrees C or F (ex. the tilt measurement unit will be operated between -20 and +60 degrees C).

Please provide an **estimated annual quantity** (ex. a customer expects to order 250 tilt measurement units per year, indicating the 100 to 500 units option).

Please indicate the level of **environmental protection** required (ex. the tilt measurement unit requires a rating of IP66, indicating a response of "IP66").

Please indicate if any **certifications** are required (ex. the tilt measurement unit must be RoHS compliant and CE certified, indicating a response of "RoHS, CE").

Is there an estimated **time requirement** for this project (ex. yes, the customer has a time-line for the project where the tilt measurement unit is being integrated, indicating the yes option)?

If yes, please indicate the soonest date that you will need units shipped in the format of MM/DD/YYYY (ex. the customer knows they will need tilt measurement units to be shipped by January 1st, 2014 in order for testing to be completed, indicating a response of 01/01/2014).

Would you be interested in **sample parts** to test (ex. the tilt measurement unit is being integrated into a larger system and requires testing before full integration, indicating the yes option)?

Please provide any relevant **contact information** in the space below. All fields are optional.

Name

Email address

Phone number

Company

We appreciate you taking the time to provide this information for us. Please feel free to provide any **additional notes or comments** in the space below.

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