MAXIMUM®
WEATHER INSTRUMENTS

Commercial Instruments

What Can an Anemometer Do Besides Spin in the Wind?

Anemometers can do a lot more than just spin and tell us how fast the wind is blowing. They can actually produce small amounts of power, and that small power production is enough to drastically improve the functionality, efficiency, and sustainability of certain mechanical equipment.

Maximum anemometers have been provided much needed assistance to solar energy contractors in both domestic and international applications. In large open areas, solar energy is an environmentally friendly and efficient way to produce power, but large open areas are also prone to high winds and unexpected gusts. Solar energy farms consist of large solar panels fixed to tracking-structures, which allow them to move throughout the day to maximize direct sun exposure. High winds and gusts, typically found in regions conducive to solar farms, can easily damage these expensive solar panels and their mechanical components. By integrating wind sensors, solar energy engineers are able to develop response controls to level out the panels in high winds.

Anemometers are used in a similar application to protect valuable structures like greenhouses. In large greenhouses, mechanical roof vents are used to ventilate the structure. When activated, large glass roof panels are lifted by mechanical devices similar to louver movements. These large glass panels are vulnerable to high winds and gusts. Through the integration of anemometers, engineers have been able to develop controls, which secure the panels in high winds to avoid damage to both the panels and control mechanisms.

Maximum anemometers have also been a vital tool for one of our business partners in wind energy assessment. As society attempts to reduce its carbon footprint and develop environmentally sound methods of energy production, it has come to rely on wind and wind energy contactors. Wind energy is a fast growing industry, and one of the most efficient and environmentally safe methods of producing energy, but you can't just stick a wind turbine anywhere. First, potential wind farm locations must be evaluated to determine if a sufficient amount of wind exists in the area on a consistent basis. Teams of scientists, engineers, and field assessment personnel strategically place a number of anemometers throughout potential sites. They are then able to observe wind speeds and determine trends and wind speed averages. Once the best sites are determined, large scale wind turbines can be constructed.

Wind sensors are simple, yet highly versatile instruments. They increase functionality, efficiency, and sustainability of mechanical equipment, from small applications in the greenhouse industry to valuable data collection activities in one of the most innovative energy efforts of our time. The world relies on Maximum anemometers when wind is a factor and we can customize our products to meet your needs. Contact us today to learn what can wind Maximum anemometers do for you?

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