

Gill WindSonic Used on Robotic Mower

Gill WindSonic ultrasonic wind sensor provides wind speed and direction data for positioning system on robotic mower.

Since its launch in 2002, the Gill WindSonic ultrasonic wind sensor has been used in a wide range of applications and has recently been selected by Precise Path Robotics, Inc. based in Indianapolis, IN USA to form an essential part of the positioning system on the RG3, a robotic greens mower. The RG3 is designed to improve the overall quality of golf course greens at a lower operating cost.

The RG3 is completely autonomous, using on-board sensors to determine its exact position and orientation on the putting green. The WindSonic wind sensor is mounted on top of the positioning module, providing real-time wind speed and direction data which is essential for maintaining positioning accuracy in windy conditions.



With no moving parts and high wind speed and direction accuracy, data provided by the WindSonic allows the RG3 to provide consistent results regardless of the strength of the wind.

The RG3 is battery powered so it was essential to choose a wind sensor with low power consumption. WindSonic has a standard power consumption of just 5.5mA so was well suited for use in the application.

Additionally, with a key advantage of the RG3 being a reduction in labour costs, it was essential to select a wind sensor that would not require regular maintenance or be susceptible to damage once installed. WindSonic is completely solid-state with no moving parts, utilising proven, reliable ultrasonic technology to provide precision wind speed and direction data.

The sensor has been designed to be maintenance free even in the most extreme weather conditions.

Thank you to Jeff Everett (Precise Path Robotics) for providing the information and photographs of the RG3 for this application note.

If you would like to learn more, please contact us at:

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