Subject:	WindSonic used as part of entertainment monitoring
Reference	AN0006

WindSonic used as part of entertainment monitoring

Introduction

Wind measurement can be an important factor with entertainment rides, concerts and exhibitions. Wind measurement is used for safety and can be used for monitoring possible noise nuisances.

Applications

A David Blaine stunt was carried out in a box above the River Thames walkway, which involved the monitoring of wind for safety as increased winds could cause the structure to move excessively, which would in turn produce a dangerous situation for the box occupant and the pedestrians below.



At Glastonbury the robust and lightweight 2-axis ultrasonic anemometer is installed as part of a wind monitoring system, supplied by Adaptive Data, to capture wind data throughout the duration of the festival. Installed onto the highest point of the Pyramid stage and other areas throughout the festival, the WindSonic will be used as part of the structural safety system for different stages.



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Application Notes

Thrill rides are an everyday part of society, with more and more being built worldwide, they can become dangerous for the passengers when wind speeds exceed suggested limits and so monitoring can become important. Some amusement parks will simply rely on local weather data from a website, however, on some rides it can be necessary to monitor conditions locally. WindSonics have been installed on the Las Vega Stratosphere Tower ride in the USA.



Why

WindSonic is chosen because it uses our proven ultrasonic technology which provides one of the most accurate ways of measuring wind speed and direction. The wind sensor is capable of providing wind speed data up to 60m/s which is monitored by the site safety office. Our solid-state WindSonic is built with no moving parts, is maintenance free and features a corrosion-free polycarbonate exterior, making it well suited to most applications.

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