

WindTalker-1000

Smart Relay Signal Converter

Traditional wind sensors can be prone to mechanical break down and require periodic repair and/or replacement. This is due to moving mechanical parts such as traditional cups and vanes, which can accumulate rust, scale or other substances that impede movement. Additionally, colder climates and precipitation can freeze and build up on the sensing unit, causing breakdown or highly inaccurate readings. Not only are these moving mechanical pieces prone to repair and replacement, but they also often times require regular calibrations which costs time and money.

Newer technology wind sensors, such as the heated ultrasonic Lufft Ventus, can eliminate these problems. Solid, one piece units with no moving parts are highly accurate in determining wind velocity, direction and ambient temperature. Unlike traditional wind sensors, which use pulsing binary signals to transmit data back to a programmable logic controller (PLC) or data concentrator, an ultrasonic sensor provides analog signals; which can be difficult for the controller to detect and read.



The WindTalker-1000 signal converter is a configurable smart relay device, specially configured and programmed by Nor-Cal Controls to aid in seamless data transfer from an analog sensor to the controller, allowing for easy integration into any existing hardware platform. In essence, transmitted signals are converted into a format detectable and readable by the existing controller. The result is a wind sensing system that is a direct replacement to older, end of life sensors, providing the end user with a highly accurate sensing system that will far exceed previous operable lifetimes of older technology sensors.

A step by step installation guide is provided with each WindTalker-1000, which provides for ease of integration, minimizing downtime and providing years of trouble free performance. Additionally, this solution is free from the requirement to modify the controllers existing program, thereby preserving previous warranty periods.