

Bridge Construction Wind Monitoring Wireless Telemetry System

Industry: Infrastructure

Summary

Customer Challenge

Wind monitoring is a necessary operation during bridge constructions. Strong winds can destroy a bridge under construction since it is a work in progress with poor structural design. Monitoring these winds in real time is much more accurate than using predicted weather forecasts,

Interface Solution

Interface suggests installing the WTS-WSS Wireless Wind Speed Transmitter Module on the highest point of construction, such as a crane. Wind speed results are wirelessly transmitted to the customer's PC through WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure. It can also be transmitted to the WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters. Data can be displayed, logged, and graphed with supplied Log100 software.

Results

Interface's WTS-WSS Wireless Wind Speed Transmitter Module combined with Interface's Wireless Telemetry System was perfect to monitor the wind speed in real-time during the bridge's construction.

Materials

- WTS-WSS Wireless Wind Speed Transmitter Module
- WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure with included Log100 Software
- WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters
- Customer Laptop

How It Works

1. The WTS-WSS Wireless Wind Speed Transmitter Module is installed to a crane during the bridge's construction.
2. The WTS-WSS captures the wind speeds wirelessly transmits it to the customer's PC through the WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure. Customer's also have the option of using the WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters. Results are displayed, graphed, and recorded with supplied Log100 software.

