ADVANCED REMOTE
WIND MONITORING

CRANE SPECIFIC
LIVE, HISTORICAL & FORECAST WIND DATA

www.windcrane.com
CRANE SPECIFIC LIVE, HISTORICAL & FORECAST wind data in one application with WORLDWIDE coverage.

WEATHER CLAIMS DATA
Access to operational site specific wind data. Reduce weather disputes with accurate historical wind data at crane height.

SAFETY FIRST
Remote access to live wind data at crane height. Hazardous weather conditions monitoring and forecast to inform safety operations.

CRANE SPECIFIC FORECAST
Plan for maximum operational time with accurate wind weather forecasts specific to site and crane height.

WIND SPECIALISTS
One platform for all your cranes live, historical and forecast wind speeds. WINDCRANE meets IEC-61400 and BS EN 13000 standards. Easily share reports with project colleagues.
VISUAL REPORTS
- Weekly historic wind report
- High wind risk days over the week
- Total weekly hours of high risk wind

TOTAL HOURS WIND RISK
Easily view total hours per week of high risk and "cautionary" wind speed.

LIVE WIND DATA
Clearly view all your cranes with live wind data and risk colour coding.

WEEKLY WIND STATS
Daily recorded maximum wind speeds and high wind risk hours.

DOWNLOAD, PRINT & SHARE
For better planning download, export & share wind speed reports for your cranes.

WINDCRANE is an IoT enabled WIND SPEED management PLATFORM.
Accurate and specific wind risk forecasting data, reduces crane downtime and supports forward planning.

**CRANE SPECIFIC FORECASTING**
- Week ahead wind forecast at crane height
- High risk wind days forecasting over the week
- Potential total hours of downtime over the week

**HEIGHT CALCULATOR**
Getting an accurate forecast is essential for safety. Choose the exact height that you need to forecast.

**RISK FORECAST**
Potential total hours of downtime due to high and “cautionary” wind risk forecast.

**7 DAY FORECAST**
Plan your week ahead including high wind risk hours per day.
**LIVE WIND MONITORING APP PLATFORM**

**EASILY MONITOR ALL YOUR CRANES WIND SPEED REMOTELY**

![Images of mobile app interfaces showing wind speed and health data]

**ONLINE 24/7 WORLDWIDE**
View live wind speed and risk from all your WINDCRANE devices on one dashboard.

**INSTANT NOTIFICATIONS**
Receive instant mobile wind alert notifications with live data.

![Images of global fleet crane map and wind speed & risk overview]

**GLOBAL FLEET CRANE MAP**
Access site data via global fleet crane map.

**WIND SPEED & RISK OVERVIEW**
Crane specific colour coded wind data to view historic, live and forecasted wind speed and risk.

**LIVE FLEET WIND DASHBOARD**
GIVING YOU REMOTE ACCESS TO SITE SPECIFIC WIND DATA SINCE 2007.

- All our systems are designed to meet the wind standards under IEC-61400 with a resolution better than 0.01m/s and accuracy better than 0.007%

- WINDCRANE only uses remote monitoring technology with a global proven track record, that is GSM technology with world coverage.

- Our products have been used in some of the most remote areas in the world from the Antarctica, to Himalayas to the Atacama desert

- WINDCRANE platform is powered by Logic Energy IoT experience serving the energy and utility sector.

ACCESS via fleet.windcrane.com, iPhone or Android
**HARDWARE**

**WINDCRANE** hardware options to fit any crane or structure. You can connect **MULTIPLE** different **SENSORS** for monitoring almost anything, from weather stations to energy, water level, pressure sensor, status...

**WINDCRANE INCRANE**
- Designed to be installed inside crane electrical panels.
- It can measure wind, energy, temperature, etc.

**WINDCRANE MAX**
- Super tough & weatherproof.
- Suitable for construction sites, outdoor structures and outdoor events, agriculture, academic research and more.
- Can measure multiple sensors.

**WINDCRANE MINI**
- Small, compact & tough.
- Suitable for cranes, construction sites, scaffolding, hoists, mobile structures, stages and more.

**SENSORS & ACCESSORIES**

**HIGH ACCURACY ANEMOMETER**

**TEMPERATURE / HUMIDITY ATMOSPHERIC PRESSURE**

**POWER MONITOR**

**WIND DIRECTION VANE**

**WINDCRANE HEAVY DUTY CABLE**

**WARNING LIGHT/ SIREN**

**IN CRANE DISPLAY**

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MONITORING WIND SPEED ACCURATELY

Wind forecasting is essential when working at heights and a safety requirement for operating cranes and heavy lifting equipment. It is always advisable to measure the crane specific wind speed and height. The increase of wind speed within cities and chances of turbulent wind gusts are higher than they may feel at ground level.

IEC 61400 requires wind speed to be sampled at 1Hz including maximum and standard deviation. The wind standard deviation is key to measure the wind turbulence profile of the construction site, and for this, accurate measurement systems need to be used.

A key aspect of monitoring wind speed, which is often forgotten is when the crane is out of operation. Many accidents occur when the cranes are unmanned during a sudden change of wind profile at site. This is why it is so important to measure, record and alert any changes of wind 24/7.

In general major contractors, crane manufacturers and the Health and Safety Executive recommend a maximum wind speed for tower cranes at 38mph (16.5m/s or 60kph) and completely prohibited over 20m/s (45mph or 72kph).

This criteria is used in our general colour coded reporting tools. These can be edited as per your requirements. To meet the IEC-61400 standards criteria, the anemometer needs to be measured at 1Hz (at least once every second), for this rapid signal sampling rate, a wired anemometer is always preferred over a wireless one.

WINDCRANE units have an accuracy better than 0.007% and a resolution better than 0.01m/s for wind speed measurement.

WINDCRANE is a reliable fully wireless wind speed system, with a global reach using the GSM network and manufactured under ISO 9000 standards.