ADVANCED REMOTE
WIND MONITORING

CRANE SPECIFIC
LIVE, HISTORICAL & FORECAST WIND DATA

WINDCRANE®

www.windcrane.com

WINDCRANE

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.

WIND DATA SERVICE

Wind is the biggest cause of delays and downtime on crane and construction projects and is becoming more erratic every year.

Windcrane data services enhance real-time crane planning and safety, improves productivity and provides valuable information for evidencing downtime and operations.

WINDCRANE is designed to measure **LIVE, HISTORICAL** and **FORECAST** wind speed data directly from your crane and construction site.

Your wind monitoring data is available 24/7 from the **WINDCRANE PRO App** + **fleet.windcrane.com**. View multiple Windcrane devices from one application:

ANDROID APP ON Google play | Download on the App Store | Fleet Dashboard

IMPROVED PLANING AND OPERATIONAL PERFORMANCE using site specific and height wind forecasting to plan and prepare for weather related impacts on crane and construction projects

REDUCE RISK AND ENSURE PROJECT SAFETY with constant live wind speed data and safety alerts instantly accessible to all personnel on or off-site

SAVE COSTS AND PENALTIES BY JUSTIFYING WINDED OFF PERIODS AND EXTENSION OF TIME due to harsh weather. Avoid disputes over delays using accurate wind speed reports specific to your project site

ENHANCE EFFICIENCY AND PRODUCTIVITY FOR YOUR FLEET with unlimited user access to view and manage multiple cranes and sites wind data 24/7 from our cloud based application

Cranes - Construction - Offshore rigs - Outdoor events - Hoists - Research - Academia

Fleet and user management

Worldwide visibility for multiple systems

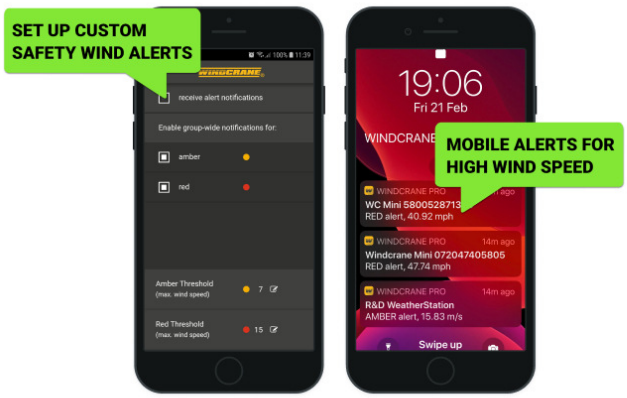
Managing multiple projects and sharing your data is easier using the Windcrane management platform.

- 24/7 data backup and security to the Windcrane cloud management platform.
- Device management - edit names, metrics and alerts.
- User management - set up user access and allocate site access to each user.
- Data archive - Download data from any date/any time.
- Global connectivity and geographical fleet management.

Enhanced operational safety

Wind gust safety alerts

- Improve the safety of your personnel, cranes and construction site with LIVE wind speed warning alerts specific to the location site.
- Customisable and unlimited wind speed alerts
- Customisable metrics - mph, m/s, knots...



Justify downtime and EoT due to wind

Historical and daily wind reports

- Provide site-specific evidence for weather claims and downtime with daily and weekly wind speed reports.
- Historical wind data reports can be downloaded instantly for any date and shared in an easy to read format saving time and helping you get on with the job.

Improve productivity with smarter lifting plans

Height specific forecast reports

- Highlight potential high risk wind conditions and avoid unexpected delays and added costs.
- Optimise lifting schedules by viewing which hours of the day are workable and which times will be difficult.
- Get a detailed accurate forecast by adjusting the report to the exact height of your crane or structures.

Making sure you're always connected to your data

Global technical and customer support

This is our number one priority. Our team are available via email, phone and WhatsApp if you need any help with installations, setting up users, demos and any questions about your wind data.

Get in touch

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www.windcrane.com

Get in touch for your subscription to Wind Data Service

What our customers say

Falcon Tower Cranes

The ability to access wind speed data from our large fleet of cranes is really important to us.

The Windcrane IoT remote data service gives us instant access to every crane on every site.

Wind gust alerts and detailed downloadable reports have been indispensable for our daily operations.

FALCON TOWER CRANE SERVICES LTD

Sarens

The system has surprised us in terms of connectivity in some of our most remote wind farm sites.

We can rely on the Windcrane systems for consistent accurate wind speed data during our installations.

sarens

London Tower Cranes

It's important to LTC that we use the latest technologies on our cranes and Windcrane has proven to be a reliable system which continues to evolve and satisfy our wind data needs.

We can easily manage over 100 systems remotely via the windcrane platform, offering our customers remote access to this data too.

LONDON TOWER CRANES

Wind 1000

The ability to prove downtime and delays due to bad weather is very valuable to us.

With remote access to the wind data we can improve our planning, safety and operations.

WIND 1000

Heathrow Cranes

Having crucial wind speed data from every crane and being able to easily share this with our customers has been very valuable on todays construction sites.

Reporting winded off periods and accessing our wind data is fast and easy to use.

HC HEATHROW CRANES

Wolffkran

Windcrane has been a significant useful addition to HTC Wolffkran.

With over one hundred of these recorders in our hire fleet, we continue to look for additional benefits to provide to our valued customer base.

HTC WOLFFKRAN

WINDCRANE®

GIVING YOU REMOTE ACCESS TO SITE SPECIFIC WIND DATA SINCE 2007.

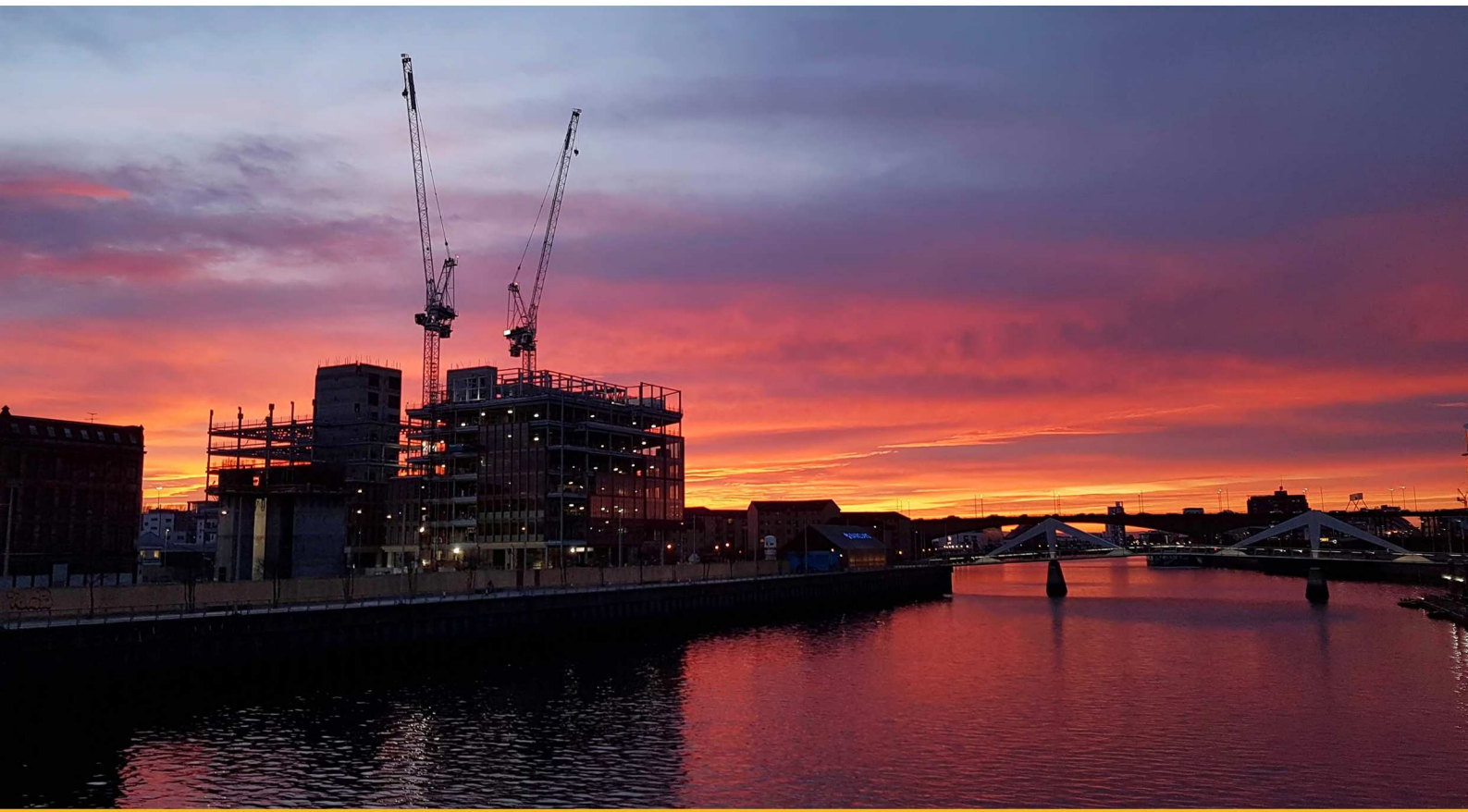
- All our systems are designed to meet the wind standards under IEC-61400 with a resolution better than 0.01m/s and accuracy better than 0.007%

- **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



ABOUT US WINDCRANE

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.

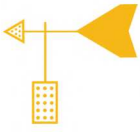
SENSORS & ACCESSORIES

HIGH ACCURACY ANEMOMETER

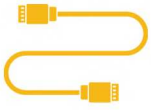
TEMPERATURE / HUMIDITY ATMOSPHERIC PRESSURE

POWER MONITOR

WIND DIRECTION VANE



WINDCRANE HEAVY DUTY CABLE



WARNING LIGHT/ SIREN

IN CRANE DISPLAY

WINDCRANE®

GENERAL WIND STANDARDS

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.

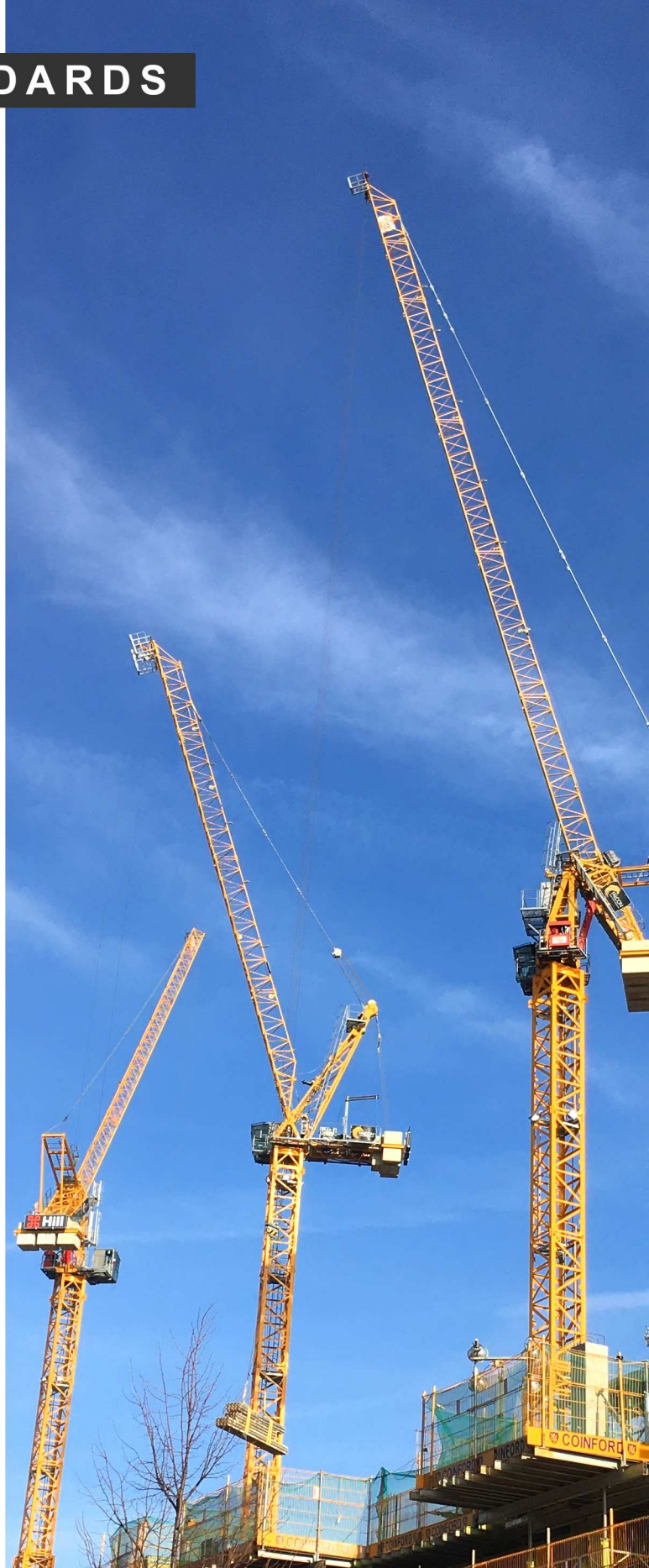
A key aspect of monitoring wind speed, which is often forgotten is when the crane is out of operation. Many accidents occur when the cranes are unmanned during a sudden change of wind profile at site. This is why it is so important to measure, record and alert any changes of wind 24/7.

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.



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