

## WINDCRANE Max

### Step-by-Step Installation Guide

#### IMPORTANT

- Test the system in your office/workshop and make sure you are comfortable with its operation and the wiring before installing it on site.
- Do not plug in the mains power supply or connect the battery until the system has been wired and mounted.

#### MOUNTING & WIRING

##### 1. Enclosure

- The battery, charger board and WINDCRANE logger are pre-installed in the enclosure.
- Mount the enclosure back plate to a pole or wall vertically with the battery at the bottom and cable glands facing downwards. Use the supplied U-bolts for mounting to a 45-60mm diameter pole, or other suitable fixings for wall/post mounting.
- The lid can be opened like a door for easy access. A padlock can be fitted for security.



##### 2. Wind Speed Sensor

- Mount the wind sensor vertically and clear of any obstacles that may affect air flow.
- The sensor is supplied with a saddle bracket and U-bolts for pole mounting. Refer to separate assembly/mounting instructions.
- Connect the sensor extension cable socket to the sensor plug. Hand tighten the threaded locking rings together secure the connection.
- Route the cable to the logger enclosure and secure it to the structure. Take care to not pull on the cable at the sensor.
- Connect the sensor cable plug to the "Wind Sensor" connector on the WINDCRANE datalogger, and screw the threaded lock rings together to secure. Ensure the connectors are securely mated to guarantee water-tightness.

**For systems with multiple sensors, connect each sensor to the appropriate labelled connector "pigtail".**



##### 4. Solar PV Panel

- Assemble the mounting bracket according to the diagram included in the kit.
- Use bolts supplied to attach the mounting bracket to the frame of the PV panel.
- Using the supplied clamps or screws, attach the mounting bracket to a pole or surface with an unobstructed view of the sun (facing south if in the Northern Hemisphere).
- Route the cable to the logger enclosure and connect to the "Solar Panel" connector on the enclosure. Again, ensure the connectors are securely mated to maintain water tightness.



## SWITCH ON

### 1. Connect battery terminal and external power

- Remove the plastic protection cover from the red (positive) terminal on the battery
- Connect the red wire on the charger to the red terminal on the battery. Push the crimp connector firmly onto the battery terminal.
- Connect the solar PV panel (see above) OR plug in the mains power supply and switch on. This starts charging the battery.
- The battery is protected with a 2 Amp slow-blow fuse. Replace with same type if necessary.



### 2. Switch on logger

- Plug the data logger's green power connector into the output socket on the charger board. This powers up the data logger.
- The amber "GSM" LED next to the logger power terminals flashes for approx 1 minute while the system connects to the network. After the first connection, the system starts logging.
- The green "Status" LED flashes once every second to indicate normal operation.



### 3. Check operational status and monitor data

- Log in to the WINDCRANE web portal or WINDCRANE Pro mobile app using your supplied user account and check the device status and data. Refer to your user account welcome email for login details/links, and separate documentation for the mobile app.

### 4. Switch off (for storage/transport or when data logging not required)

- Disconnect the data logger's 2-pole power plug from the charger board to switch it off.
- Switch off mains power supply or disconnect PV panel
- **If storing or transporting the unit, also disconnect the battery positive (red) terminal for safety and to prevent battery discharge.**