

### **TS350 WIRED ANEMOMETER**

# Installation & Setup Manual Version 1



THE COMPLETE TS350 WIRELESS WIND SPEED SYSTEM HAS BEEN PRE-ASSEMBLED AND THE FOLLOWING MANUAL WILL AID IN THE INSTALLATION & SETUP PROCESS

#### ! WARNING !

THE PURPOSE OF THIS MANUAL IS TO PROVIDE THE CUSTOMER WITH THE OPERATING PROCEDURES ESSENTIAL FOR THE PROMOTION OF PROPER MACHINE OPERATION FOR ITS INTENDED USE. THE IMPORTANCE OF PROPER USAGE CANNOT BE OVERSTRESSED. ALL INFORMATION IN THIS MANUAL SHOULD BE READ AND UNDERSTOOD BEFORE ANY ATTEMPT IS MADE TO OPERATE THE MACHINE.

SINCE THE MANUFACTURER HAS NO DIRECT CONTROL OVER MACHINE APPLICATION AND OPERATION, CONFORMANCE WITH GOOD SAFETY PRACTICE IN THIS AREA IS THE RESPONSIBILITY OF THE USER AND HIS OPERATING PERSONNEL.

ALL PROCEDURES ARE BASED ON THE USE OF THE SYSTEM UNDER PROPER OPERATING CONDITIONS, WITH NO DEVIATIONS FROM THE ORIGINAL DESIGN. ALTERATION AND OR MODIFICATION OF THE EQUIPMENT IS STRICTLY FORBIDDEN WITHOUT PRIOR WRITTEN APPROVAL.

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#### **SYSTEM COMPONENTS:**

- Anemo 4403 Anemometer
  - o Head unit (with vanes) & 20m Cable & 3 Pin AT series connecting Plug
  - Stainless Steel bracket with oilon bush and washer
- Mounting pole (M10 threaded bar) with mounting foot, lock nuts & washers.
- TS350 Display Unit enclosed in anodized aluminium housing complete with buzzer, external antenna, universal swivel mounting bracket & 5 meters of 2 core cable for power supply.

#### **DISPLAY MOUNTING INSTRUCTIONS:**

#### **TOOLS REQUIRED:**

- 1 x Power Hand Drill
- 1 x 7mm Drill Bit
- 1 x 5mm Hex Head Allen Key
- 1 x 10mm Spanner

#### PROCEDURE:

- 1. The display unit must be mounted in an easily viewable and accessible place. The display can be mounted in virtually any suitable place by using the universal ball joint type bracket which is attached to the back plate of the housing. To allow free movement of the display on the bracket, turn the wing knob on the mounting bracket anti-clockwise enough to loosen the bracket. Decide which position is best by turning the brackets to the desired position and then "locking" the universal bracket by turning the wing knob clockwise until the ball type bracket does not have any free movement.
- 2. Remove the two M6 x 30mm socket head cap screws and nuts supplied with the ball mounting bracket round disc with 4 large (7mm) and 4 small (5mm) holes. Place the disc where it is to be mounted and mark two mounting holes using 2 of the large holes. Drill two 7mm holes and fasten the mounting ball bracket using two M6 screws and nuts. Fasten the screws through the bracket using a 10mm spanner and 5mm Hex Head Allen key.
- 3. Locate a suitable power source to power the display unit (2A for the display only). Route the two-core cable to the power source and connect the numbered wires as indicated:
  - Wire #1 + Supply (10-36VDC)
  - Wire #2 - Supply (Earth/Ground)

#### DISPLAY BOARD POWER SUPPLY WIRING

Power supply cable for the TS350 display unit is prewired on delivery but the following procedure is used to change the power supply wiring.

Great care should be taken when opening the display unit as wires from the main board are connected to or running through the back plate and incorrect procedures could result in

damaging the wires. Please also ensure that the display power is OFF while the following procedure is carried out.

#### **TOOLS REQUIRED:**

- 1 x 2.5mm Hex Head Allen key
- 1 x 2mm Flat Head Screwdriver

#### PROCEDURE:

- 1. Loosen the gland(s) on the back plate to allow the cable(s) to move freely through the gland(s).
- 2. To remove the back plate, loosen and remove the 8 x M3 x 12mm socket head cap screws completely using a 2,5mm Allen key. Support the plate at all times to ensure that the plate does not fall.
- 3. Carefully lift the back plate approximately 130mm away from the aluminium housing (do not hang back panel from wiring).
- 4. The buzzer is connected to the main board by red and black wires terminated with a white Molex connector; this connects onto the receptacle connector on the main board. To remove the back plate completely carefully unclip the connector from its receptacle.
- 5. The USB is connected to the main board by brown, blue, white & black wires terminated with a USB A connector. To remove the back plate completely carefully unplug the connector from its receptacle.
- 6. Remove the back plate completely.
- 7. Make sure the 2A blade fuse is not damaged and is inserted securely.
- 8. Connect the power wires to the following terminals using the 2mm flat head screwdriver:
  - Terminal ++ Wire #1 + Supply (10-36VDC)
  - Terminal -- Wire #2 - Supply (Earth/Ground)
- 9. To close the display:
  - Ensure all power wires are securely in the terminals.
  - Connect the buzzer's Molex plug to the circuit boards reciprocal connector.
  - Connect the USB A connector to the circuit boards reciprocal connector.
  - Position back cover on display box making sure not to pinch any wires and replace the 8 x M3 x 12mm socket head cap screws.
  - Gently pull wire(s) back through glands until slack has been taken up and then tighten gland(s).

#### **CONNECTING RELAY OUTPUTS**

The TS350 display unit has provision for wiring up external lights and/or siren using the two relays mounted on the display board.

- Relay 1 equal to or exceeding the intermediate limit
- Relay 2 equal to or exceeding the upper limit

To set up the relevant limits see Windspeed & Unit Setup.

The contact block is situated inside the display unit on the board and the contacts utilsed are as follows:

#### RELAY 1 (Intermediate limit)

- NC1 Normally Closed Contact
- COM Common
- NO1 Normally Open Contact

#### RELAY 2 (Upper limit)

- NC2 Normally Closed Contact
- COM Common
- NO2 Normally Open Contact

#### **TOOLS REQUIRED:**

- 1 x 2.5mm Hex Head Allen key
- 1 x 2mm Flat Head Screwdriver

#### PROCEDURE:

Connection can be done to both outputs (intermediate and upper) or individually as required.

- 1. Open the display box as per the Display Board Power connector wiring.
- 2. Replace M12 blank-off(s) in back plate with M12 gland(s) as required for output wiring.
- Establish the relay output required by the device Maximum 10A @ 250VAC or 10A @ 28VDC.
- 4. Connect the required output to the common on the contact block Preferably use a separate supply but if low power (less than 2 Amps) or ground feed is required connect a wire directly from the supply or ground into the Common on the relevant relay.
- 5. Common signal will now be directed through the relevant relay as follows:
  - Normally Open (NO)
    Error will close contact
  - Normally Closed (NC) Error will open contact

#### MOUNTING THE ANEMO 4403 ANEMOMETER

#### **TOOLS REQUIRED:**

- 1 x Welding Machine Qualified welder to do welding
- 1 x Hacksaw
- 2 x 17mm Spanners

#### PROCEDURE:

- 1. The anemometer head unit will need to be mounted at the furthest point possible ensuring that the "wind vanes" are ABOVE the highest obstructive point i.e. on mobile cranes the unit should be mounted on the tip section above the level of the top of the boom so that even when the boom is at its highest point, the wind speed meter head is still above the boom head.
- 2. Find a suitable place to mount the anemometer. The mounting pole must be cut to the correct length, we recommend as short as possible to eliminate the possibility of the unit getting damaged or knocked off. The unit should be positioned correctly and have complete freedom of movement when swinging. The anemometer has a green nylon bush & washer where the pole slides through, this is fastened by using two M10 Nylock nuts & washers on either side of the spacer using the two 17mm spanners. Ensure the following:
  - a. **DO NOT** tighten the nuts together too tightly as the anemometer will not be able to swing freely & self-level with the movement of the boom
  - b. Ensure that the threaded bar is flush (inline) with the inner nut so that the threaded bar does not touch or interfere with the cable i.e. if the threaded bar protrudes from the nut it will damage the cable.
- 3. Once a suitable mounting place has been identified, weld the mounting foot to the crane's boom. The anemometer is isolated and the bracket may be welded while the wind speed meter is attached to the pole. If the anemometer has been removed from the pole refit the anemometer as in point #2 above.

#### **SYSTEM USE**

The Safe-Aid TS350 unit is designed with ease of operation in mind.

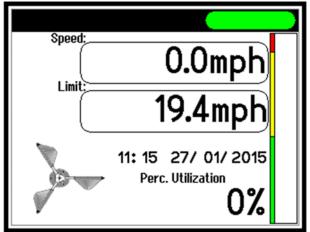


Figure 1

The working screen (**Figure 1**) displays the following parameters:

- current wind speed
- wind speed limit (user adjustable maximum wind speed)
- the percentage utilisation digital and bar graph
- buzzer activated or buzzer override activated
- graphical representation of anemometer
- USB flash drive inserted

The touch screen is sensitive to touch therefore it is not necessary to push hard on the screen (if touch screen does not work or selects incorrectly see touch screen calibration).

#### SYSTEM STARTUP

When powering up the TS350, the system runs through a complete set of internal system diagnostics to make sure all inputs and outputs are working correctly (**Figure 2**). The TS350 system goes into the working screen once all the relevant checks have been completed. No user entry is necessary when starting up.



Figure 2

#### **ERROR MESSAGES & UTILISATION**

The wind speed unit measures wind speed between the following parameters.

UNIT OF MEASURE	MINIMUM WIND SPEED	MAXIMUM WIND SPEED
KNOTS	1.0	97.1
MILES PER HOUR	1.1	111.8
KILOMETERS PER HOUR	1.8	180
METERS PER SECOND	0.5	50

The TS350 display unit will only start displaying the wind speed once the **Minimum** wind speed has been reached.

If the TS350 display exceeds the user adjustable **Maximum** speed for the anemometer unit, the unit will display **100% Windspeed** (in red) underneath the "Limit" field and the buzzer will sound continuously.

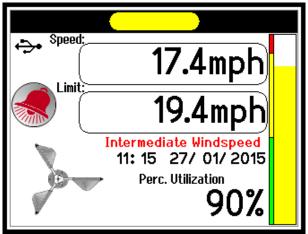


Figure 3

**Utilisation:** Utilisation is the actual wind speed utilised against the wind speed limits. This is displayed graphically by the bar, proceeding from green (less than **Intermediate Limit**), then amber (greater than or equal to **Intermediate Limit** but less than **Upper Limit**) and finally red (greater than or equal to **Upper Limit**) increasing incrementally as a percentage.

If the wind speed is equal to or greater than the Windspeed Intermediate Limit (**Figure 3**) the following will happen:

- The percentage utilisation bar graph will turn yellow
- Intermediate Windspeed will be displayed below the Limit block
- The display buzzer will sound intermittently
- Top robot type indication light on the top of the screen will change to yellow
- The buzzer symbol will be displayed after five seconds

If the wind speed is equal to or greater than the Windspeed Upper Limit (**Figure 4**) the following will happen:

- The percentage utilisation bar graph will turn red
- 100% Windspeed will be displayed below the Limit block
- The display buzzer will sound permanently until an intermediate condition or lower is reached
- Top robot type indication light on the top of the screen will change to red
- The buzzer symbol will be displayed after five seconds

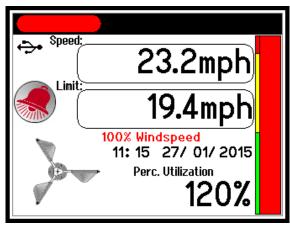


Figure 4

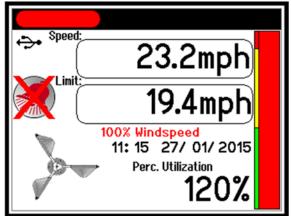


Figure 5

The display buzzer can be overridden (shut-off) by pressing the buzzer symbol if intermediate or 100% windspeed is reached. Once the symbol has been pressed (**Figure 5**) a red cross will be placed through the buzzer symbol.

#### WIND SPEED LIMIT & UNIT SETUP

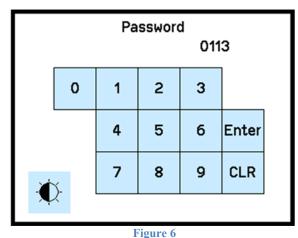
Select the required units by pressing **Wind Speed Units**. Wind Speed Units will now be highlighted blue and by pressing the select button the units will change. Each time the **Select** button is pressed the units will change sequentially as follows:

kts - Knots

mph
 Miles per hour

• km/h - Kilometers per hour

• m/s - Meters per second



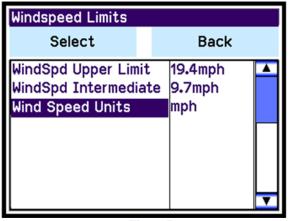
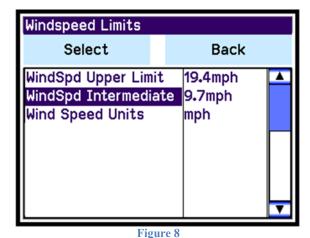


Figure 7

Once the correct units have been selected, highlight the desired limit and use the keypad to enter the Intermediate (**Figure 8**) and Upper (**Figure 9**) wind speed limits. The system has a pre-programmed conversion formula so the limits can be set in one unit of measure but shown in another with no calculations needed by the operator. This can be done by just selecting the correct unit, inputting the desired limits and then changing the units to the required units to be displayed.



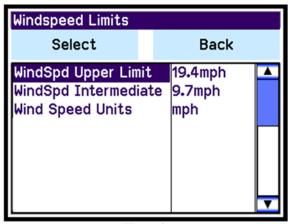


Figure 9

Once the limits and correct units have been set press the Back button, the system will return to the working screen.

#### **SYSTEM SETUP & TESTING**

To enter the **Settings & Test Menu**:

- Press the screen in the top left hand corner.
- The password screen will appear, and a password will be requested (Figure 10).
- Enter the 4-digit password [\_\_\_\_] [\_\_\_] ] followed by the Enter ][ key. Contact your authorized distributor or email the factory for password access.
- The Settings & Test Menu screen will now be displayed (Figure 11).

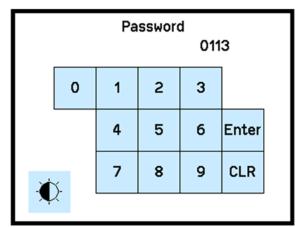




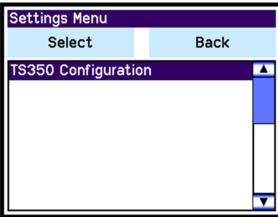
Figure 10

Figure 11

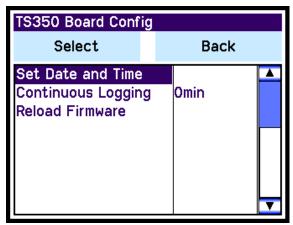
#### **SETTINGS MENU**

To enter the system setup of the TS350 display unit

- Press the **Settings Menu** button
- Settings Menu will be displayed (Figure 12).







From this menu you can setup all the parameters of the entire TS350 wind speed meter.

The following parameters can be set here:

- TS350 Configuration (Figure 13)
  - Set Date & Time
  - Continuous Logging

#### Reload Firmware

#### **SET DATE & TIME**

To change the systems current date and time highlight the **Set Date & Time** and press the select button (**Figure 14**). Select the date or time unit that needs to be changed by pressing on the relevant value, all units will display a keypad where the required number should be entered except for the month which will change incrementally on each selection.



Figure 14

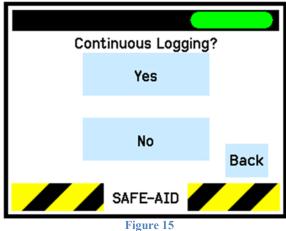
#### **CONTINUOUS LOGGING**

For any logging of data to take place a USB flash drive (memory stick) must be inserted into the TS350 display unit i.e. the USB symbol is displayed in the top left corner. The following pre-set data is then logged to the USB with the TS350 display units date and time stamp:

- Over Intermediate Limit
- Under Intermediate Limit
- Over Upper Limit
- Under Upper Limit
- Peak Speed
- Powerup
- WindSpeed Password Entered
- System Password Entered
- UpperLimit Changed
- Intermediate Limit Changed
- Units of Measure Changed

There are two methods of logging used on the TS350 display unit:

- Continuous Logging Option 1
- Error Logging Option 2



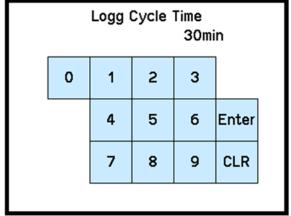


Figure 16

Option 1: Continuous Logging - Logg Cycle Time (log interval) – Interval time to be set

- Highlight Continuous Logging
- Press Select
- Select **Yes** (Figure 15)
- Enter the required time interval (1-60 minutes) followed by the Enter key (Figure 16)

#### Option 2: Log pre-set data only - Continuous Logging - **Disabled**

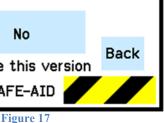
- Highlight Continuous Logging
- Press Select
- Select No (Figure 15)

#### **RELOAD FIRMWARE**

These are advanced options and should only be done by or under the supervision of an authorized factory. These options have random code generation protection therefore require a onetime password from the factory. Please contact your authorized distributor who will get a factory representative to help with these features.

- **Reload Firmware (Figure 17)**
- Press Select
- Confirm Selection & enter Random Generated Password from factory (Figure 18)





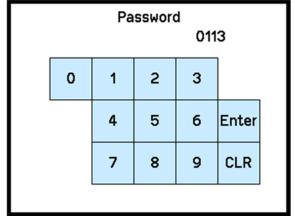


Figure 18

#### **TEST MENU**

To enter the **Test Menu** for the TS350 display unit

- Press the **Test Menu** button (**Figure 19**)
- Test Menu will be displayed (Figure 20).



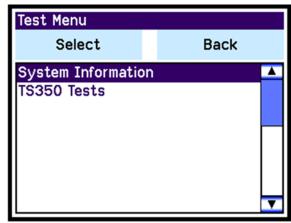


Figure 19

Figure 20

From this menu you can view and test the following parameters of TS350 wind speed meter.

- System Information
- TS350 Tests
  - View Variables
  - Test Inputs
  - Test Outputs

#### SYSTEM INFORMATION

This screen (Figure 21) displays the following information:

- Display Serial no. The last four digits are the serial number of the display unit
- Display Board FW. This is the Firmware version of the board
- R400 Board FW. If the R400 Board is connected via CAN Bus it will be displayed with the relevant serial number, if not connected 'Not **connected**' will be displayed.

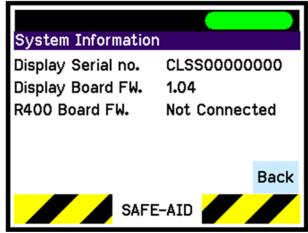


Figure 21

#### **TS350 TESTS**

Select **View Variables** (**Figure 22**) to view the wind speed in all the different units of measure:

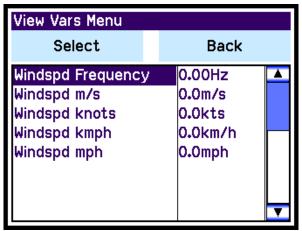


Figure 22

Select **Test Inputs** to view the digital inputs on the TS350 display board (**Figure 23**). The box next to the relevant input will as follows:

- Input present green block e.g. Input 1
- No Input clear block e.g. Input 2, 3 & 4

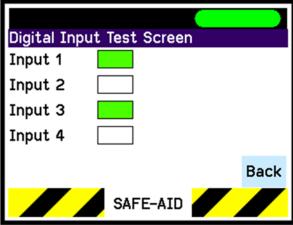


Figure 23

Select **Test Outputs** to test the two relay outputs on the TS350 display board **(Figure 24)**. Press the button next to the relevant relay to switch the relay on and off.

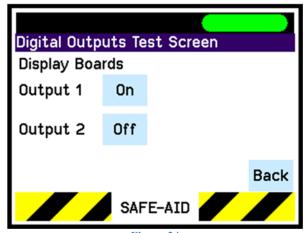


Figure 24

#### **TOUCH SCREEN CALIBRATION**

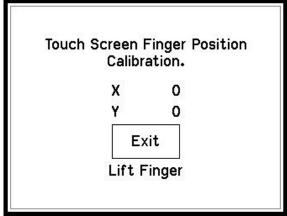
If the screen is not responding correctly to touch, the touch screen may need to be calibrated.

Switch the TS350 display power off, power up the TS350 while pressing in the middle of the screen.



Figure 25

While the splash screen is on keep pressing in the centre of the screen for a full five seconds until the touch calibration is activated and loaded (**Figure 25**). Lift your finger and follow the on-screen instructions (**Figure 26**).





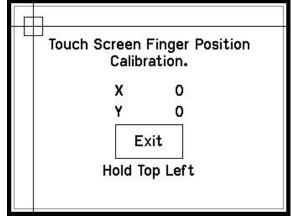


Figure 27

If the calibration screen has been entered by accident and touch calibration is not necessary, press the **Exit** button without pushing anywhere else on the screen to continue with normal start up procedures.

If the touch screen calibration is required, follow the below procedure:

Press and hold finger where the two lines meet inside the small box at the top left-hand corner (**Figure 27**). Calibration works fine when using a finger but for better results use a pen taking care not to press too hard or the screen will be damaged.

Hold finger/pen in this area until prompted to lift (**Figure 26**). Prompts will then be given for three more touch zones resulting in co-ordinates for all four corners of the screen.

Once calibration is complete the software automatically goes to the working screen.

#### DATA LOGGER SOFTWARE SETUP FOR PC

All the data stored on the USB flash drive can be downloaded and stored on to a Windows based PC. The software application setup can be found on the USB flash drive in the TS350 display unit.

Full software support is available for the following operating systems:

Windows 10

Insert USB flash drive into the PC & double click on the setup executable file WindspeedLoggerXXXX fullsetup.exe. XXXX represents the software version number.

Once the application has started correctly a **Welcome** screen will appear (Figure 28), click Next to continue to the Installation Folder screen (Figure 29). The application will automatically create a folder Elec-Mech\\Windspeed Logger or select Change to select a different folder. 8.0MB of space is required for installation and the available space is shown, make sure there is enough space before continuing.

Mindspeed Logger Setup



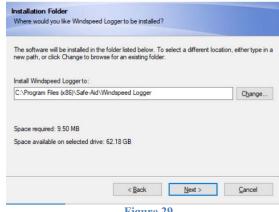
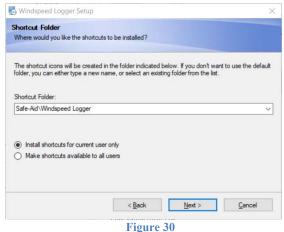


Figure 28

Figure 29

Click Next to continue to the Shortcut Folder screen (Figure 30). The shortcut will be placed on the desktop and can be made available for the current user or all users; this is selectable on this screen using one of the two options provided.



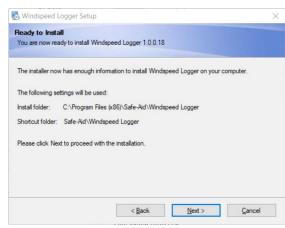
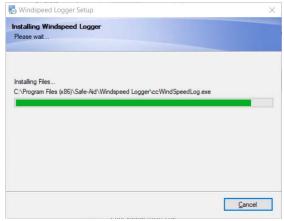


Figure 31

Before the installation begins all the selected information is displayed again on the **Ready to** Install screen (Figure 31). Confirm all the selections made are correct and click Next to continue.



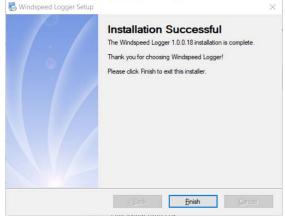


Figure 32 Figure 33

The application will now install and a progress bar will be displayed (**Figure 32**), once complete the Installation screen will be displayed (**Figure 33**). Click Finish to complete installation and exit the Windspeed Logger Setup installation.

Once the **ccWindSpeedLog** program is installed open the program on the PC using the shortcut on the desktop, remove the USB flash drive from the TS350 display unit and insert the USB flash drive into the PC.

Any software problems contact your authorized distributor or email the factory at:

info@cranesafety.co.za

#### BASICS OF THE PC LOGGING SOFTWARE - ccWINDSPEEDLOG

All the data stored on the USB flash drive can be downloaded and stored directly from the USB flash drive onto the PC using the ccWindSpeedLog software.

The following functions can be done or viewed with the ccWindSpeedLog application:

- Backup DataFile on Read Download & backup windspeed data from USB flash drive
- Delete DataFile on Read Download & delete windspeed data from USB flash drive
- Unit Register- Create a crane register with TS350 display serial number and a crane identification or serial number therefore allowing multiple cranes data to be stored in one place
- Delete event data from data base (date selection)
- Number of logged data entries Viewed on the screen
- Printing of reports by data entry date user selectable with a start date and an end date.

Open the ccWindSpeedLog shortcut on the PC desktop (Figure 34).



rigure 34

#### **UNIT REGISTER - ccWINDSPEEDLOG**

Each TS350 display unit is appointed a serial number at the factory i.e. the serial number cannot be changed. This is used to identify all the displays in the logging software and therefore can be given a customised description linking the display to the crane. Once a list of TS350 display units and machines has been compiled add them to the logging software as follows:

- Click on the Unit Register tab
- Click on the button, the Serial Number entry window will be displayed (Figure 35)

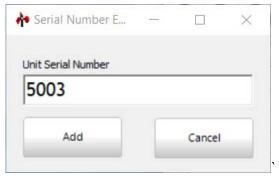


Figure 35

- Enter the TS350 display serial number and click Add.
- Click on the Unit Description box (Figure 36)

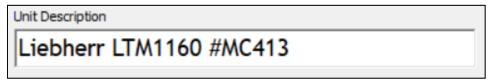


Figure 36

- Type a customised description of the machine the TS350 is installed into in the Unit Description box i.e. this description can be the machine description, serial number, fleet number or a combination.
- Click on the button once the description is complete to save. The description can be edited at any time by clicking on the description editing the text and repeating the save.
- Repeat the above steps to add all the TS350 display units with their relevant descriptions.
- To delete a unit, click on the button and the Confirm Delete window will be displayed (Figure 37). Click Ok to confirm deletion or Cancel to keep the record.

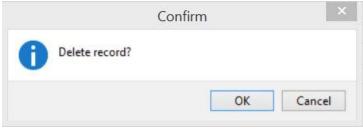


Figure 37

 Once completed the PC should have a list of all the TS350 serial numbers and descriptions (Figure 38).

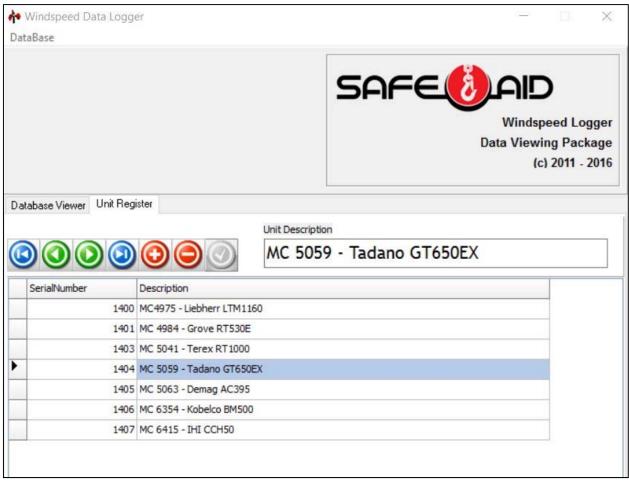


Figure 38

#### DOWNLOADING LOGGED FILES - ccWINDSPEEDLOG

The logged data from the TS350 display unit is transferred from the USB flash drive to the PC manually to allow the data to be managed. The following process will run through the download of the files from the USB flash drive:



- Once the USB flash drive has been inserted the **Log File List** tab will be displayed between the Database Viewer and the Unit Register tabs (**Figure 39**)
- Click on the Log File List tab to show the file path on the left as well as the log files (.WSS) on the USB flash drive on the right of the screen (Figure 40).

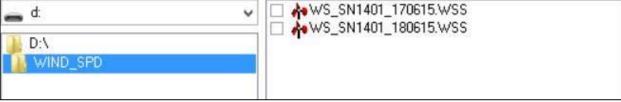


Figure 40

- The log files are generated daily by the TS350 and the file is structures as follows:
  - o WS first 2 letters are for wind speed
  - SN1401 TS350 display unit serial number
  - o \_170615 Day, Month & Year the file was created on the TS350 display unit
- Select the log file(s) that need to read into the data base by checking on the Check box(s) next to the file(s) name(s).
- There are 2 methods of reading the data files into the data base:
  - Delete DataFile on Read this saves the data into the data base and deletes the file from the USB flash drive
  - Backup DataFile on Read this saves the data into the data base creates a backup file in My Documents and deletes the file from the USB flash drive
- ▼ Delete DataFile on Read
  Click the
  □ Backup DataFile on Read tick box to select the required method
- Select | Select
- The data will be deleted from the flash drive and loaded into the data base.

#### DATABASE VIEWER - ccWINDSPEEDLOG

Once the data has been read into the data base Click on the **Database Viewer** tab (**Figure 41**) the data can be viewed and/or printed as required by following the procedure.

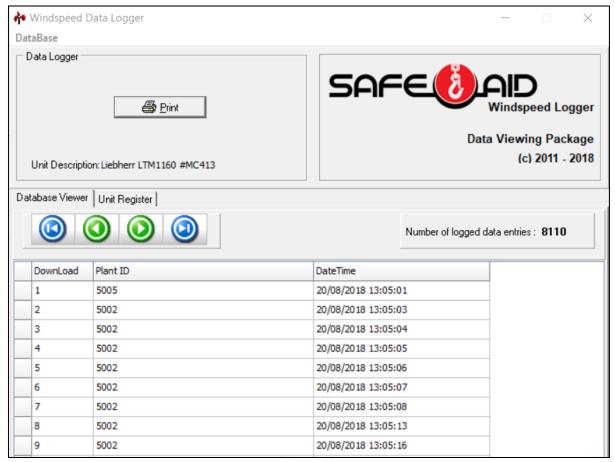


Figure 41

- All downloads will be shown, as follows:
  - Download download number which is added incrementally for each download completed and cannot be reset
  - o Plant ID the identity of the equipment the TS350 is installed into
  - DateTime is the date and time that the download was done and not when the file was created on the USB flash drive
- Click on the relevant heading to reorder (sort) the downloaded files from low to high and vice versa.
- Select the button (Figure 42) and the select the options as laid out below:
  - Report Date Range
    - From date to date select a from date and a to date, this will reduce the print data
    - No date (All events) all events in the data base will be selected
  - Report Grouping
    - By Equipment Number only the selected equipment number will be displayed
    - All Equipment all equipment in the data base will be selected

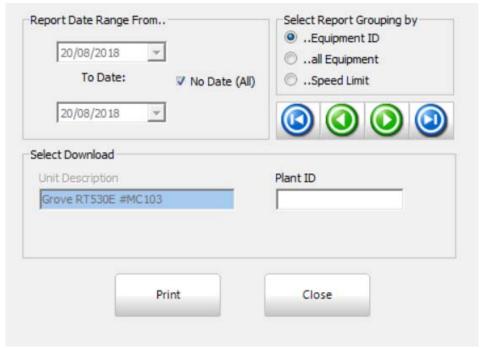


Figure 42

Once date range and equipment type has been selected press the button and the requested report will be generated (**Figure 43**).

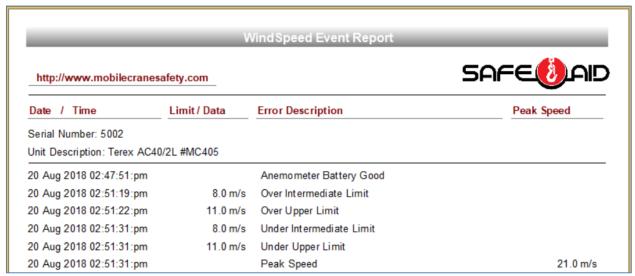


Figure 43

The windspeed event report shows the following data:

- Serial Number TS350 display unit's unique serial number
- Unit Description Description created by user in Unit Register
- Date / Time Date & time that actual event occurred as per the TS350 Display Units real time clock
- Limit / Data
  - o The limit value at the time of event
  - The value for continuous logging
  - o The value entered for limit changes

All the event data is in date and serial number order.

#### CLEARING DATABASE - ccWINDSPEEDLOG

Events can be deleted by date range using the following procedure:

Click on DataBase in the top left-hand corner.

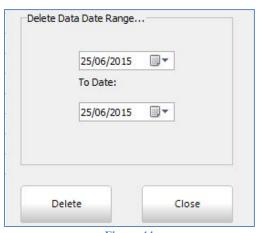


Figure 44

- Click on Clear Old Records
- Select the data range to be deleted (Figure 44)
- Once the dates have been selected click the button.

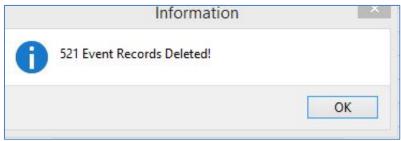


Figure 45

- The total number of events deleted will be displayed (Figure 45)
- Click the OK button
- If all the events from a download have been deleted the download will be deleted (Figure 46)



Figure 46

- Click the OK button
- Once complete click the button.

#### LOADING DATABASE - ccWINDSPEEDLOG

Databases can be moved from PC to PC and loaded using the following procedure:

- Click on DataBase in the top left hand corner.
- Click on Load Database File
- Select the location of the new data base (**Figure 47**)

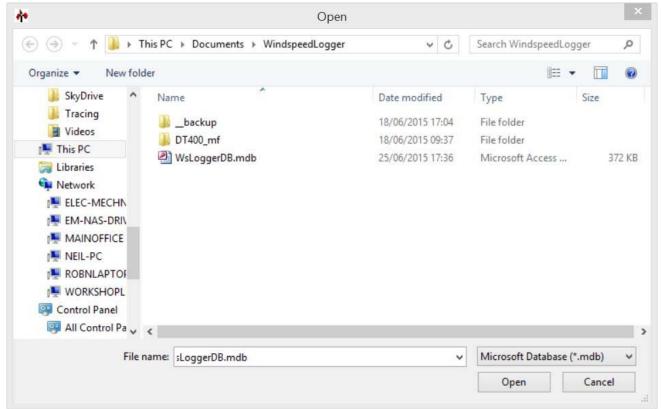


Figure 47

- Select the required database file \*.mdb
- Click the Open button to use the selected data base