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# 1. App AnemoTracker

Calypso Instruments have a free app to connect your equipment with mobile devices, this app is available for Android (Google Play) and IOS (App Store) operating systems.

Once the app is installed we connecting with our device.

Below, we detail each of the levels offered by the app.

## 2. Main screen (start of the app):

In the image we see the first screen that the application shows us when it starts.

Where can observe digital indicators with the data:

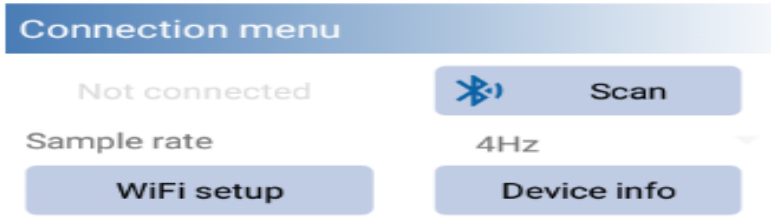
- Apparent Wind Angle (AWA), degrees
- Real Wind Angle (TWA), degrees
- Apparent Wind Speed (AWS), knots
- Real Wind Speed (TWS), knots

In turn, the analog indicator shows us the compass with the orientation, the yellow arrow indicates the angle, and the red arrow indicates the angle with respect to the cardinal point.

In the next image can view the different levels:

# 3. Level 1: Configuration panel

## 3.1. Connection menú



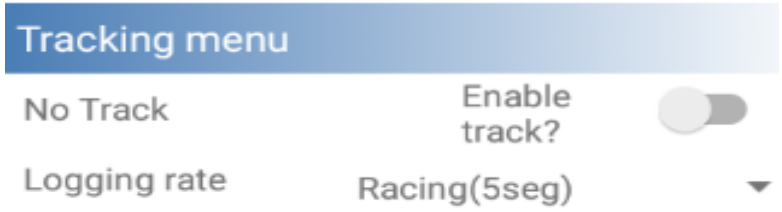

In this section we can connect our device with the application, to do this we scan the elements connected to bluetooth (Scan) and select our device, in case of viewing different devices, the first of the list refers to the closest to our position.

Once connected, we can change its name by clicking on its own name (click to change name).

Simple rate, by default is set to 4 Hz, giving the option to choose between 1 Hz or 8 Hz

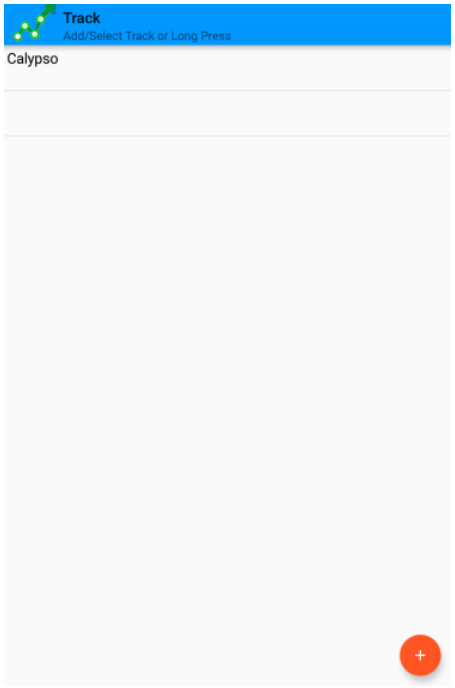
Device info shows all the information related to our device, manufacturer name, model number, serial number, hardware revision, firmware revision and software revision.

## 3.2. Tracking menú



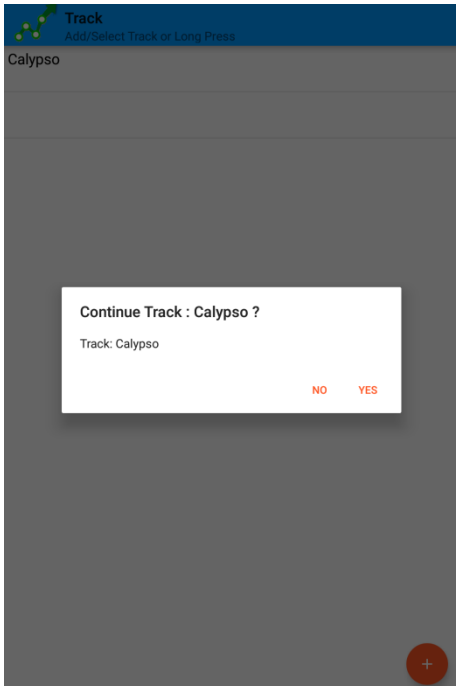

If activate the enable track tab, can perform the data storage.

To make the data storage after activating the tab, you must follow the following steps:




Clicking on , will send us to a new screen where create the document.

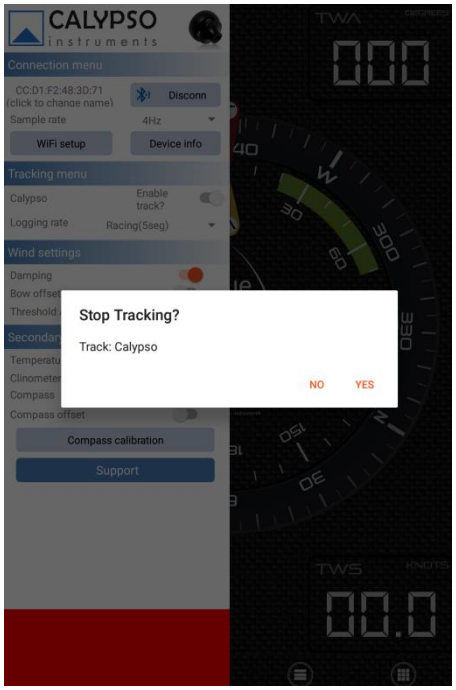
In that screen will see if have created any previous track, can to continue recording on the track or create a new one.

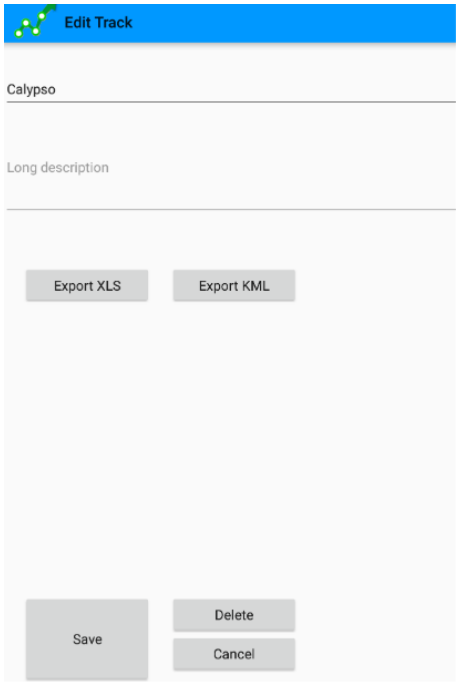


If  choose to create a new document, in name need introduce the desired name and press Create & Init.

Once the file is created, it begins to store all the data.

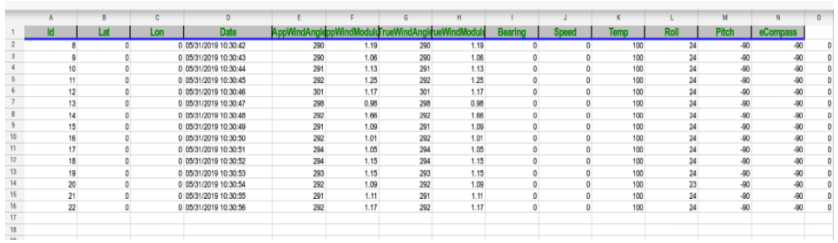
If you like stop recording data, need the tab is disabled and you can start working with that data.




Can to click on the name of the track during a short time shows us the screen to edit it, the options it offers are: change the name, export to XLS or KML.

If perform the download in .xls (Excel file) it shows a result like the next image:



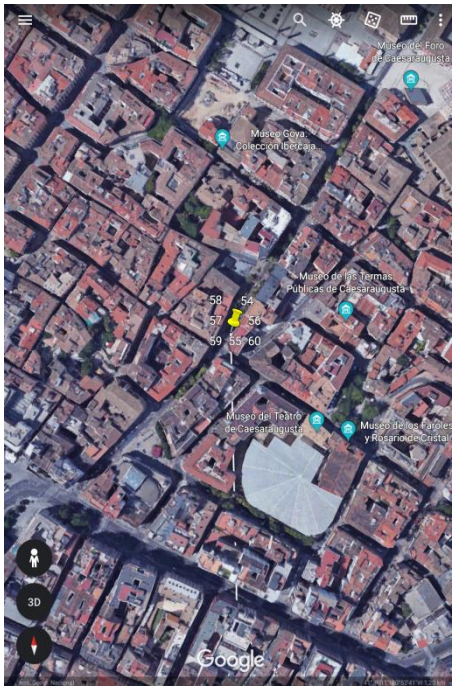
| Id | Lat | Lon | Date | AppWindAngle | AppWindModule | TrueWindAngle | TrueWindModule | Bearing | Speed | Temp | Roll | Pitch | eCompass |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | 0 | 0 | 05/31/2019 10:30:42 | 290 | 1.19 | 290 | 1.19 | 0 | 0 | 100 | 24 | -90 | -90 |
| 9 | 0 | 0 | 05/31/2019 10:30:43 | 290 | 1.06 | 290 | 1.06 | 0 | 0 | 100 | 24 | -90 | -90 |
| 10 | 0 | 0 | 05/31/2019 10:30:44 | 291 | 1.13 | 291 | 1.13 | 0 | 0 | 100 | 24 | -90 | -90 |
| 11 | 0 | 0 | 05/31/2019 10:30:45 | 292 | 1.25 | 292 | 1.25 | 0 | 0 | 100 | 24 | -90 | -90 |
| 12 | 0 | 0 | 05/31/2019 10:30:46 | 301 | 1.17 | 301 | 1.17 | 0 | 0 | 100 | 24 | -90 | -90 |
| 13 | 0 | 0 | 05/31/2019 10:30:47 | 298 | 0.98 | 298 | 0.98 | 0 | 0 | 100 | 24 | -90 | -90 |
| 14 | 0 | 0 | 05/31/2019 10:30:48 | 292 | 1.66 | 292 | 1.66 | 0 | 0 | 100 | 24 | -90 | -90 |
| 15 | 0 | 0 | 05/31/2019 10:30:49 | 291 | 1.09 | 291 | 1.09 | 0 | 0 | 100 | 24 | -90 | -90 |
| 16 | 0 | 0 | 05/31/2019 10:30:50 | 292 | 1.01 | 292 | 1.01 | 0 | 0 | 100 | 24 | -90 | -90 |
| 17 | 0 | 0 | 05/31/2019 10:30:51 | 294 | 1.05 | 294 | 1.05 | 0 | 0 | 100 | 24 | -90 | -90 |
| 18 | 0 | 0 | 05/31/2019 10:30:52 | 294 | 1.15 | 294 | 1.15 | 0 | 0 | 100 | 24 | -90 | -90 |
| 19 | 0 | 0 | 05/31/2019 10:30:53 | 293 | 1.15 | 293 | 1.15 | 0 | 0 | 100 | 24 | -90 | -90 |
| 20 | 0 | 0 | 05/31/2019 10:30:54 | 292 | 1.09 | 292 | 1.09 | 0 | 0 | 100 | 23 | -90 | -90 |
| 21 | 0 | 0 | 05/31/2019 10:30:55 | 291 | 1.11 | 291 | 1.11 | 0 | 0 | 100 | 24 | -90 | -90 |
| 22 | 0 | 0 | 05/31/2019 10:30:56 | 292 | 1.17 | 292 | 1.17 | 0 | 0 | 100 | 24 | -90 | -90 |

The columns values in the Excel file:

| |
|---|
| Id |
| Latitude |
| Lon |
| Date |
| AppWindAngle |
| AppWindModule |
| TrueWindAngle |
| TrueWindModule |
| Bearing |
| Speed |
| Temp |
| Roll |
| Pitch |
| eCompass |

If like to export in KML, must download the Google Earth app, available for Android and IOS.

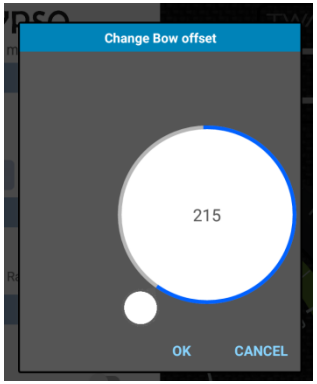
Once started the application, not need to import any document, it will show us the data on the map.

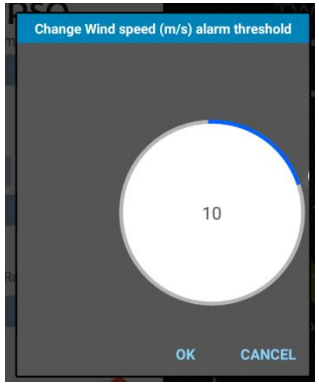



Damping
Bow offset
Threshold Alarm

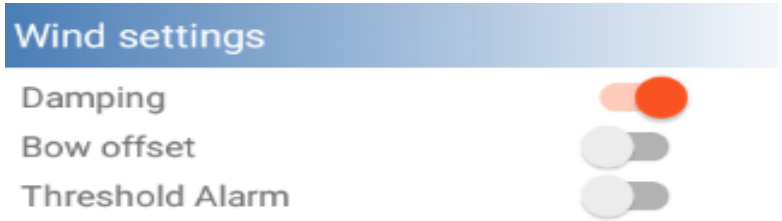
Click in the tab of parameter that like to change.

If click Bow offset a window will appear to introduce the value that want to put of compensation, moving the small circle around the big, until the value that need.



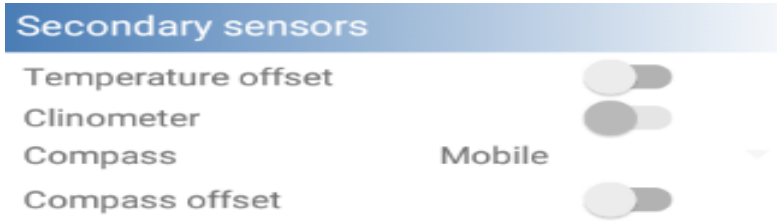




## 3.3 Wind settings




Threshold Alarm, can choose the wind speed (m/s) to which want the alarm to jump. This value is selected as in the previous case, by the small circle around the big.

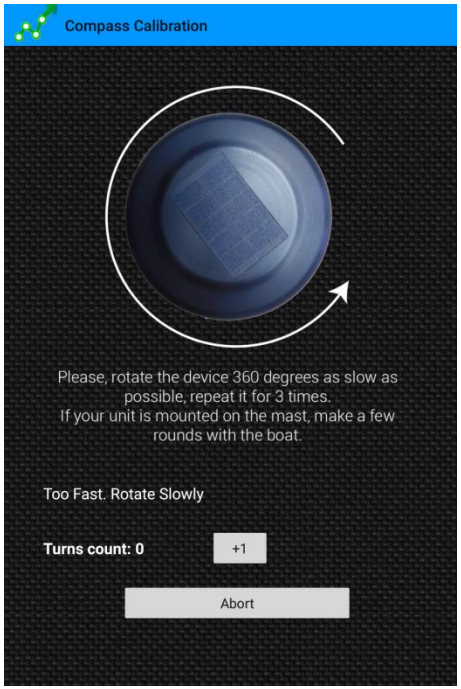
## 3.4 Secondary sensors




This case, gives us the option to select the activation of secondary sensors:

Temperature offset
Clinometer
Compass
Compass offset

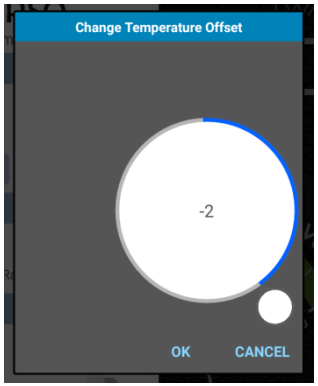
If want to make a compass calibration will need to have activated the Clinometer tab.

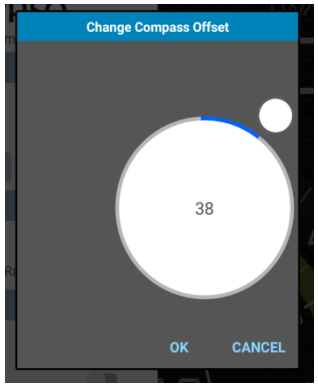



To calibration, follow the steps as indicated, as a full turn is made, 1 will be added to the counter, in case you have completed the round and it has not been added, you can add it manually click +1.

When completing the three laps, it returns us to the previous screen.

In the case of the temperature offset and the compass offset, can manually set the value using the small circle.



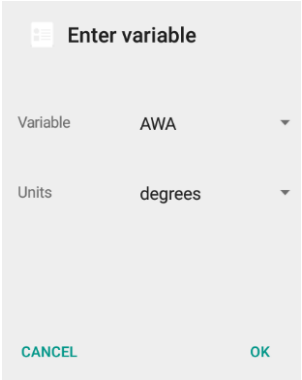

Finally, there are a link with technical support, automatically deviates to Calypso website.

https://calypsoinstruments.com/page/user-s-manuals

# 4. Level 2: Main screen

This icon return to show the main screen.

By default it shows us the values that have commented (highlighted in yellow) this data can be modified, need click a short time on the value that we want to replace and a drop-down is opened with all the options.




This table shows all available variables, as well as the units:

| Variable | Unidades | | Variable | Unidades |
|---|---|---|---|---|
| AWA | degrees | | Temp | ºC<br>ºF |
| AWS | knots<br>m/s<br>km/h | | Roll | degrees |
| Speed | knots<br>m/s<br>km/h | | Pitch | degrees |
| TWA | degrees | | MagHdgUltra | degrees |
| TWS | knots<br>m/s<br>km/h | | MagHdgMobile | degrees |
| TWD | degrees | | | |

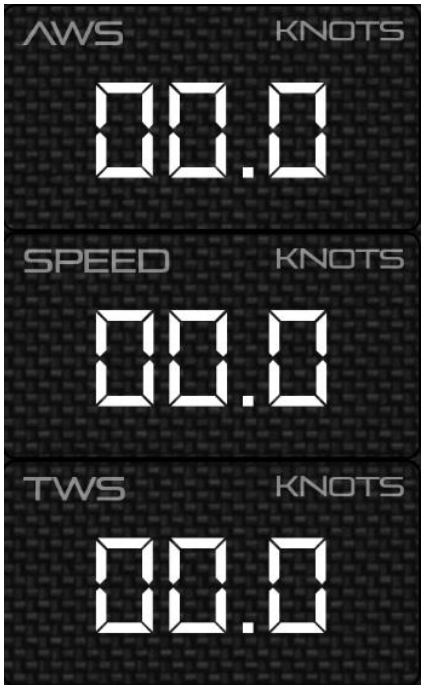
# 5. Level 3: Display current position GPS

Can see a map with the current position in which we are located.

At the same time, we visualize the speed in the digital and analogue displays.

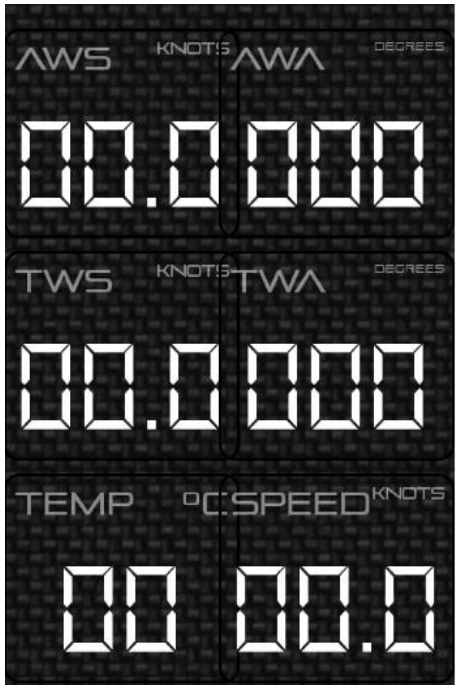
Remember that digital displays can be modified by the variables that you prefer to visualize.

## 6. Level 4: Display of speed data




In this case, it shows us in digital displays the values of speed, apparent wind speed and real wind speed.

## 7. Level 5: Display of data




In this level, can visualize the data apparent wind angle (AWA), in degrees, the real wind angle (TWA), in degrees, the apparent wind speed (AWS) in knots, wind speed real (TWS) in knots, speed in knots and temperature in centigrades.

*** Remember that the digital displays displayed in level 4 and 5 can be modified by the variables that you prefer to visualize.**

# 8. Troubleshooting

When starting the application, if you scan and your device doesn't appear, recommend restarting the application.

If you have multiple active devices, these will appear in the list, with the nearest in the first position. In this case, it may take a few minutes until find all the devices. If view that the application does not respond, restart it.

According to the operating system from your mobile in which installed the application, can give some error at the time of starting, keeping the screen blank, this is solved by restarting the application.

In case of carrying out the calibration by means of the application, can observe that it doesn't make the account of the turns well, this can be due to the speed of rotation of the device. If  add a full turn before doing it, we recommend that you finish a second turn and if the error is repeated, cancel the calibration. If you make the complete turn and not add, we recommend that you add it manually as indicated in section 3.4.