Wind Speed Display
APRS World, LLC
User's Manual

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Thank-you for purchasing APRS World's Wind Speed Display*! We are confident that you will find this to be a valuable tool and sound investment in assisting you with monitoring wind and gust speeds .*

This section of the manual will provide you with all of the basic information you need to know to get your Wind Speed Display up and running.

NAVIGATION

The Wind Speed Display's easy-to-use interface includes a backlit LCD screen, which displays current wind speed and the maximum gust speed registered during the previous 60 seconds. A simple menu-driven interface using the LCD and three front panel buttons makes setup easy. A bright backlight makes the unit easy-to-use at night.

Anemometer

Mounting Plate

Looped Flexible Cable

Counterweight

BUTTONS

LEFT ●: Scrolls through display screens and allows user calibration in setup menus. Moves values in the negative direction.
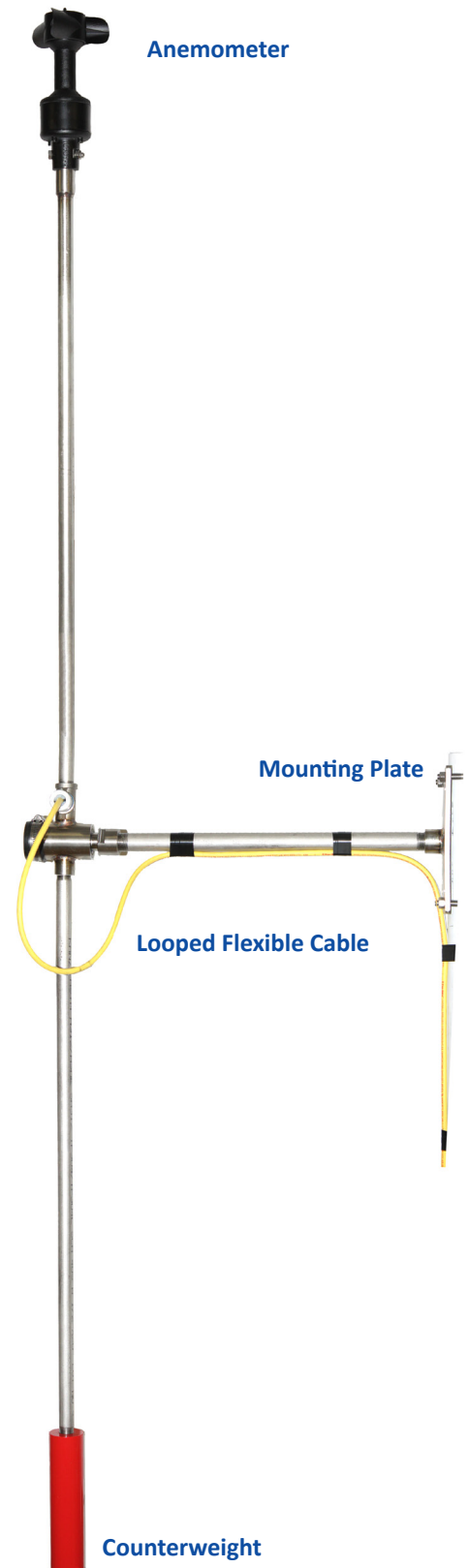
CENTER ●: Press to enter 'Setup' menu and to set user calibrated displays

RIGHT ●: Scrolls through display screens and allows user calibration in setup menus. Moves values in the positive direction.

All buttons respond to a single press; holding a button will not cause multiple actions to occur.

MOUNTING THE WIND SPEED DISPLAY

A mounting plate is provided with the Wind Speed Display. Attach the shorter threaded pipe to the mounting plate and tighten using a pipe wrench. Mount this assembly to your desired location. Attach the red counterweight to the long threaded pipe, then attach this to the anemometer assembly. The anemometer plus counterweight assembly can now be attached to the mounting assembly that is already in place. These two assemblies are joined using a pivoting mount that will maintain verticality for the anemometer. Be sure to tighten all threaded pipes with a pipe wrench to ensure strong connections. When the entire unit is mounted, loop the flexible cable as in the photo to allow the anemometer to pivot as needed.
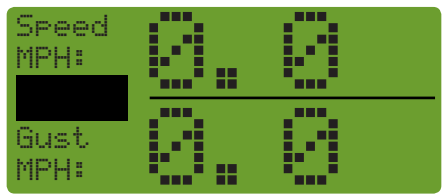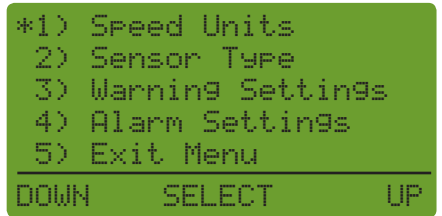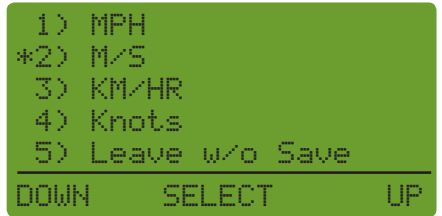
POWERING THE WIND SPEED DISPLAY

The Wind Speed Display operates using a nominal 24 volts DC power. The unit is protected by a 15 amp fuse and average power consumption is 30 watts using an NRG ice free anemometer. When connecting power using the power input connector, please note that the white input denotes positive voltage and the black input denotes negative voltage.

<p align="center">White = ✚   Black = ▬</p>

Reversing positive and negative **will destroy** the unit and void your warranty. If this is not clear, please call us.

CONFIGURATION AND OPERATION

	Display Screen	Description
Status Screen	Speed MPH: **0.0** ———————— Gust MPH: **0.0**	Default screen. Wind Speed and Maximum Gust (in the past minute) will be displayed when unit is on. Default unit of measurement is miles per hour, but this can be changed during setup.
Main Menu	*1) Speed Units 2) Sensor Type 3) Warning Settings 4) Alarm Settings 5) Exit Menu DOWN SELECT UP	To access the setup screens, press the left and right buttons simultaneously while powering the unit on. This is the Main Menu. Press the middle button to select "Speed Units" if you want to change the default unit of measurement.
Speed Units	1) MPH *2) M/S 3) KM/HR 4) Knots 5) Leave w/o Save DOWN SELECT UP	Press the left button to move down the menu to change the unit of measurement to Meters per Second, Kilometers per Hour, or Knots. Choose "Leave w/o Save" if you choose to make no changes. Upon selecting an option, you will be returned to the Main Menu.
Sensor Type	1) APRS World #40R 2) NRG #40C/HC *3) NRG IceFree 4) Leave w/o Save DOWN SELECT UP	When you select "Sensor Type" from the Main Menu, choose the correct anemometer for your setup. Upon selecting an option, you will be returned to the Main Menu.

Warning Settings

```
*1) Warn Speed
 2) Silence Switch
 3) Exit Menu
 Buzzer on when gust
 exceeds speed.
DOWN    SELECT    UP
```

Selecting "Warning Settings" from the Main Menu takes you to the "Warn Speed" menu, which allows you to set a gust speed at which you would like for the unit to sound and display a warning. Selecting "Warn Speed" will take you to the next screen.

Warn Speed

```
Gust speed for buzzer

+0015.0000

SELECT to advance.
DOWN    SELECT    UP
```

Choose SELECT to move through the digits. When you reach a digit that needs to be changed, press the DOWN or UP buttons to set the digit then the SELECT button to move to the next digit. Speed is measured using the unit of measurement set for the unit. For instance, if the unit of measurement is MPH, this screen is set to 15 miles per hour. Selecting returns you to the "Warn Speed" menu.

Silence Switch

```
 1) Disable Silence
*2) Enable Silence
 3) Leave w/o Save



DOWN    SELECT    UP
```

Selecting "Silence Switch" from the "Warn Speed" menu allows you to change the settings for the audible alarm. "Disable Silence" prevents users from turning off the audible alarm using the switch on the right. "Enable Silence" allows users to turn off the audible alarm using the switch on the right. Any selection returns you to the "Warn Speed" menu, where you can choose "Exit Menu" to return to the "Main Menu" and advance to the "Alarm Speed" setup.

Alarm Settings

```
*1) Alarm Speed
 2) Silence Switch
 3) Exit Menu
 Buzzer on when wind
 exceeds speed.
DOWN    SELECT    UP
```

Selecting "Alarm Settings" from the Main Menu takes you to the "Alarm Speed" menu, which allows you to set a wind speed at which you would like for the unit to sound and display a warning. Selecting "Alarm Speed" will take you to the next screen.

Alarm Speed

```
Alarm speed for buzz:

+0020.0000

SELECT to advance.
DOWN    SELECT    UP
```

Choose SELECT to move through the digits. When you reach a digit that needs to be changed, press the DOWN or UP buttons to set the digit then the SELECT button to move to the next digit. Speed is measured using the unit of measurement set for the unit. For instance, if the unit of measurement is MPH, this screen is set to 15 miles per hour. Selecting returns you to the "Alarm Speed" menu.

Silence Switch

```
 1) Disable Silence
*2) Enable Silence
 3) Leave w/o Save



DOWN    SELECT    UP
```

Selecting "Silence Switch" from the "Alarm Speed" menu allows you to change the settings for the audible alarm. "Disable Silence" prevents users from turning off the audible alarm using the switch on the right. "Enable Silence" allows users to turn off the audible alarm using the switch on the right. Any selection returns you to the "Alarm Speed" menu, where you can choose "Exit Menu" to return to the "Main Menu."

Main Menu

```
 1) Speed Units
 2) Sensor Type
 3) Warning Settings
 4) Alarm Settings
*5) Exit Menu
DOWN    SELECT    UP
```

Select "Exit Menu" from the "Main Menu" to return to the status screen of the unit.