

Specifications

Wind Speed

Range:

0 – 110 mi/hr (0-177 km/hr)

Accuracy:

±5% or better

Sampling Rate:

About 1 second

Odometer

Resolution:

Resettable: 0.01 miles (or km)

Permanent: 1 mile (or km)

Range:

Resettable: 999.99 miles (or km)

Permanent: 99,999 miles (or km)

Average Speed

Resolution:

0.01 mi/hr (or km/hr)

Note: Average speed is only calculated while cups are moving. However, using the odometer, true average speed can be calculated.

Dimensions

Height: 16", width (cups): 8", depth: 7"

Weight

Approximately 2 lbs.

Power Source

Two 1.5 Volt button batteries (SR44/D357)

Operating Temperature

Display: 32 – 140 °F (0 – 60 °C) recommended

Product Warranty

The Hanson Hand-held Anemometer is warranted for one-year from the date-of-purchase against defective components and workmanship. The warranty covers the wind cup assembly and the display unit but does not cover the battery. The warranty does not cover damage due to misuse or abuse. For full warranty information, contact Thunderhead Technologies.

Service

Contact Thunderhead Technologies to request product service.

Thunderhead Technologies

14 Lilac Way

Taunton, MA 02780-2267

(508) 880-9989, FAX (508) 880-9990

E-mail: DanHanson@ThunderheadTech.com

<http://www.ThunderheadTech.com>

Copyright © 1996-2001 Thunderhead Technologies. All Rights Reserved.

Hanson Hand-held Anemometer

Reference Guide



Assembly Instructions

Refer to the diagram at right during assembly. You will need a Phillips head screwdriver in the following steps.

1. Insert the excess wire back into the upper tube.
2. Place the wind cup assembly over the upper tube and align the screw holes with the small black dot under the hole being on the same side. *Note: The wind cup assembly fits very snugly over the mount. Push on the connector **not** on the cups or housing.*
3. Insert the bolt and tighten with the wing nut to secure the wind cup assembly to the upper tube.
4. Insert the lower tube as shown at right, align the screw holes, and secure with the screw.



Accessing Display Features

Feature Summary

To change displayed feature, press the **BOTTOM** bar to advance the display through the following features:

TRP	Total miles (or kilometers) of wind measured since last reset.
AVS	Average wind speed since last reset. <i>Note: the average speed function does not account for calm air, i.e., the average speed is only calculated for moving air. Therefore, to determine the average speed during periods with calm air, use total distance (TRP) divided by the time since last reset (not STP below).</i>
STP	Elapsed time of moving air since last reset. This does not account for calm air, so do not use for calculating average speed during periods with calm air.
MAX	Maximum wind gust since last reset.
DST	Total miles of wind since last battery replacement. This value can only be changed by removing and replacing the battery.
CLK	Current time.



Resetting Parameters

To reset the parameters, press and hold the **TOP** bar for three seconds. This clears the values in **TRP**, **AVS**, **STP** and **MAX**.

Maintenance

The Hanson Hand-held Anemometer requires virtually no maintenance. However, the battery will need to be replaced in about 6 to 12 months. The battery is readily available at most electronics stores. The display unit is weatherproof, however, avoid submerging the display in any liquid or prolonged exposure to rain to prevent possible damage to the display.

Battery Replacement, Calibration, Clock Set

Replacement battery type: (qty. 2) 1.5 Volt type: **SR44/D357**

When the battery is replaced, you **MUST** recalibrate the unit. Use the **TOP** bar to increase the flashing number. Use the **BOTTOM** bar to advance to the next digit to the right.

1. Remove the display from the mounting bracket by pressing on the tab underneath (labeled **PRESS**) and pushing the unit up and away from the tab. (For calibration only, go to step 5; for clock set only, go to step 10.)
2. Remove the two small screws on the underside and remove the cover.
3. Replace the batteries positive side up. Replace the cover and secure.
4. Turn the display over. The 10,000's digit of the total mileage will be flashing. If you wish to restore the mileage to what it was before the replacement, enter it now. When finished entering the mileage, press and hold for one second the small gray button on the underside of the display.
5. Press the **BOTTOM** bar until **TRP** appears in the lower left corner of the display.
6. Using a pencil point, press and hold for three seconds the small gray button on the underside of the display.
7. Change the calibration value to:

0891 for miles/hour (MPH)	1433 for kilometers/hour (KMH)
0775 for knots	0398 for meters/sec
8. Change the units to **MPH** (default) or **KMH** to correspond to the setting in the previous step. (Pressing the **BOTTOM** bar after the flashing 1's digit will flash **KMH**. Press the **TOP** bar to change the units to **MPH**. The displayed units MPH or KMH will have no effect on the wind speed value.)
9. Press and hold the gray button for one second to return to the operating mode. (For calibration only, skip to step 14.)
10. Press the **BOTTOM** bar until **CLK** appears in the display.
11. Using a pencil point, press and hold for three seconds the small gray button on the underside of the display.
12. Set the current time.
13. Press and hold the gray button for one second to return to the operating mode.
14. Insert the display back **firmly** into the mounting bracket. You will hear it click when it is fully inserted. Spin the cups to ensure the unit is fully inserted and that a non-zero wind speed value is displayed.

Troubleshooting

Symptom	Solution
Blank display	Replace battery.
Speed is unusually high or low	Recalibrate unit (<i>go to step 5 above</i>).
Speed is always 0	Check that the display is firmly seated in the mounting bracket. Check wiring and connectors. Check that the magnet inside the wind cups is still attached.