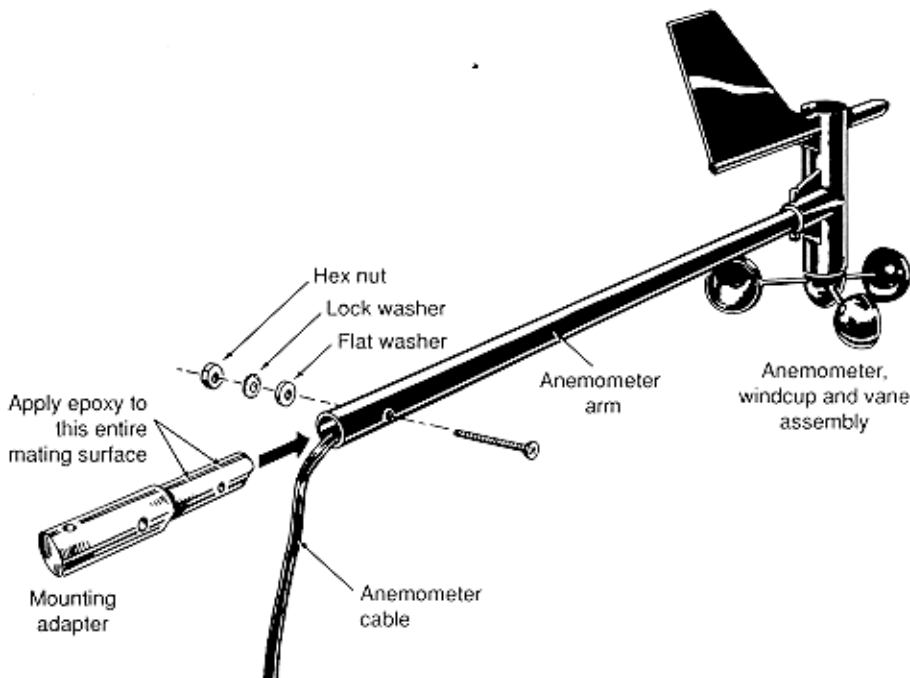


The Anemometer Mast Mount allows you to mount the Davis weather station anemometer on virtually any surface. You may mount the anemometer onto vertical, horizontal, curved, or flat surfaces and adjust the anemometer to level for greater accuracy.

Contents of Package

Make sure your Anemometer Mast Mount package contains the following:

- Two anodized angle brackets
- Anodized mounting adapter
- Three #10 x 1" pan head screws
- Two #10-24 x 1" slotted machine screws
- Two #10-24 x 1/2" slotted machine screws
- Four #10 flat washers
- Four #10 lock washers
- Four #10-24 hex nuts
- Epoxy packet



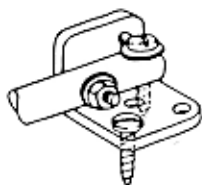
Anemometer Mast Mount Installation

MOUNTING OPTIONS

The following illustrations show the various mounting options the Anemometer Mast Mount allows.

Top of Level Surface

Secure a single angle bracket to the mounting surface as shown and then secure the anemometer to the angle bracket.



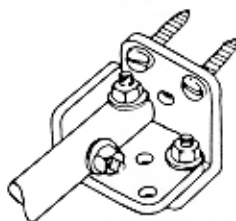
Side of Surface (Arm Perpendicular to Surface)

Secure a single angle bracket to the mounting surface as shown and then secure the anemometer to the angle bracket as shown.



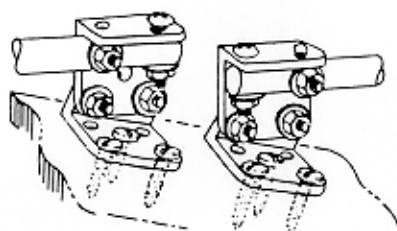
Side or Front of Surface (Arm Projecting Out)

Secure first angle bracket to the mounting surface as shown. Secure second angle bracket to the first. Secure anemometer to the second angle bracket.



Top of Surface (Inclined up to 20%)

Secure first angle bracket to the mounting surface as shown. Secure second angle bracket to the first so that the second angle bracket is level. Secure anemometer to the second angle bracket.



Installation Instructions

To make installation easier, complete steps 1-7 before ascending mast.

1. Insert the mounting adapter into the open end of the anemometer arm making sure the anemometer cable lies under the flat part of the mounting adapter. (See illustration on page 1.)

Sometimes the area inside the anemometer arm (around the hole drilled through the arm) contains small metal burrs which might hinder your attempts to insert the mounting adapter. If this is the case, simply twist the mounting adapter back and forth once to dislodge the burrs.

2. Remove the mounting adapter from the anemometer arm.
3. Spread epoxy onto the mounting adapter. (See illustration on page 1.)

The epoxy, when cured, increases the strength of the bond between the two parts and eliminates the possibility of "chatter" between parts.

4. Reinsert the mounting adapter into the anemometer arm. As you do so, keep as much epoxy as possible between the two surfaces.
5. Align the holes in the mounting adapter with the holes in the anemometer arm and secure the mounting adapter using the #4-40 screw, washer, and nut provided with the weather station. (See illustration on page 1.)
6. Wipe away the excess epoxy.
7. Set the anemometer arm down and allow the parts to remain undisturbed for approximately 15-30 minutes.
8. Once the epoxy is cured, examine the illustrations on page 2 to determine the mounting configuration that is best for you.
9. Secure the angle brackets together using the #10-24 x 1/2" slotted machine screws. Place a flat washer (first) and a lock washer over the screw before tightening hex nut onto the screw.
10. Place the angle brackets onto the mounting surface and mark the location of the drill holes.

11. Secure the angle bracket to the mounting surface using the #10 x 1" pan head screws. Consult the chart below to determine the drill hole size for the pan head screws.

Material	Thickness	In	mm
Wood	All Thicknesses	1 ¹ / ₆₄	4.4
Aluminum	Under .125" (3.2 mm)	5 ³ / ₃₂	4.0
Aluminum	Over .125" (3.2 mm)	1 ¹ / ₆₄	4.4

12. Secure the anemometer to the angle bracket using the #10-24 x 1" slotted machine screws. Place a flat washer (first) and a lock washer over the screw before tightening a hex nut onto the screw.
- ⚠ In some installations, the wind cup/vane assembly may lie on its side instead of perpendicular to the ground. To correct this, loosen the allen screws securing the wind cup/vane assembly to the anemometer arm and rotate the assembly until it is perpendicular to the ground. When finished, re-tighten the allen screws. *Do not over-tighten.*

DAVIS 
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