

CONSOLELINK™

INSTALLATION MANUAL

The ConsoleLink transmits weather data from your host weather station to other DavisTalk™ compatible consoles and receivers. This allows you to send weather data to one or more locations without using any wires.

The ConsoleLink connects to the Weather Monitor II and Weather Wizard II & III. When the host station is equipped with all external and optional sensors, the ConsoleLink can transmit the following weather data:

Data from Host Weather Station	Weather Monitor II	Weather Wizard II and III
Inside Humidity	Yes	No
Outside Humidity	Yes	No
Inside Temperature	Yes	Yes
Outside Temperature	Yes	Yes
Rainfall	Yes	Yes
Wind Speed	Yes	Yes
Wind Direction	Yes	Yes
Barometer	Yes	No

For example, if your host station does not have a rain collector the ConsoleLink will not transmit rainfall readings. Make sure the DavisTalk compatible receiver you choose, displays the sensor data you need.

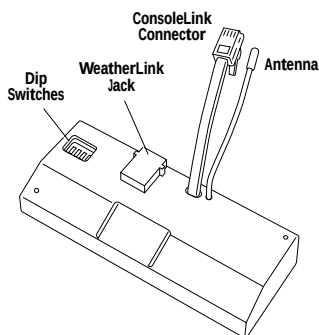
The ConsoleLink can communicate using one of 8 different ID codes. This means that multiple systems can coexist in the same geographical area. The unit includes a pass-through connector so that you can use a WeatherLink data logger with the host weather station.

Note: *The ConsoleLink operates on a low power frequency that does not require you to obtain an FCC license.*

For a complete listing of all DavisTalk compatible products, please see our latest catalog.

COMPONENTS

The ConsoleLink consists of a single unit as shown below.



THE CONSOLELINK

Note: You must also have an appropriate host weather station and a DavisTalk compatible receiver to complete the system. See our latest catalog for a listing of DavisTalk compatible products.

LOCATING THE CONSOLELINK

Try to position the DavisTalk compatible receiver(s) as close to the ConsoleLink as possible. Here are typical maximum transmission ranges:

- ◆ In the line of sight: 400 feet (240 m).
- ◆ Through walls and ceilings: 100 to 200 feet (30 to 60 m).
- ◆ Through trees and foliage: 100 to 200 feet (30 to 60 m).

Radio transmission range is reduced by:

- ◆ Interior and exterior walls, trees and other foliage.
- ◆ Metal reinforcements such as rebar and wire mesh in walls.
- ◆ People in the vicinity of the receiver.
- ◆ Radio interference from wireless products such as 900 MHz cordless phones.

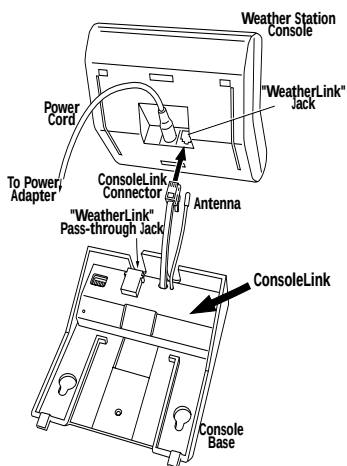
INSTALLATION STEPS

The ConsoleLink comes already assembled; all you need to do is:

1. **Attach the ConsoleLink to the host weather station, page 3.**
If you wish, you can also attach a WeatherLink Data Logger, page 3, or attach a ConsoleLink to a wireless weather station, page 4.
2. **Set the transmitter ID code, page 5.**
3. **Power the ConsoleLink, page 6.**
4. **Test data transmission, page 6.**

ATTACHING THE CONSOLELINK TO THE HOST WEATHER STATION

The ConsoleLink has a short cable with a modular connector (ConsoleLink connector) on its free end. Attach the transmitter to the host weather station as follows:



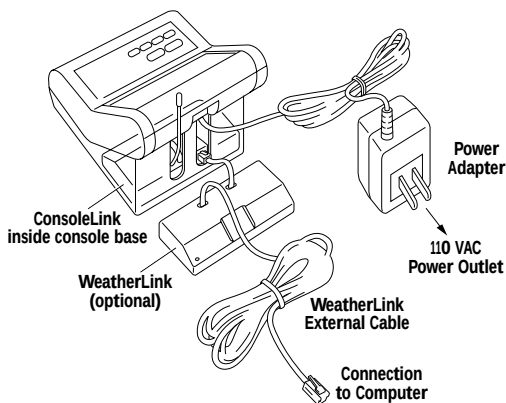
1. Remove power from your weather station.
2. Nest the ConsoleLink into the console base.
3. Insert the ConsoleLink connector into the weather station "WeatherLink" jack as shown.

ATTACHING THE CONSOLELINK TO THE HOST STATION

Note: We recommend not to plug in the power cord at this time. The diagram above is for you to refer to when you power the ConsoleLink (see page 6).

ATTACHING A WEATHERLINK DATA LOGGER (OPTIONAL)

You can attach a WeatherLink data logger to the ConsoleLink as follows:



1. Remove power from the weather station.
2. Nest the ConsoleLink into the console base as shown in the diagram above.
3. Insert the ConsoleLink connector into the weather station "WeatherLink" jack.
4. Insert the WeatherLink connector into the ConsoleLink "WeatherLink" jack
5. Reinstall the Console base following the instructions in your host station manual.

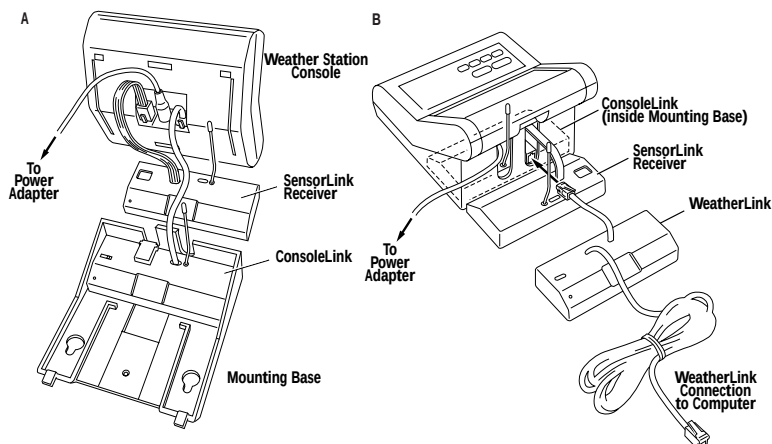
ATTACHING A WEATHERLINK TO THE CONSOLELINK

Note: The WeatherLink will not fit in the base of the host station and must be positioned outside of the console base as shown on page 3. Avoid putting undue pressure on the short cable plugged into the ConsoleLink.

ATTACHING THE CONSOLELINK TO A WIRELESS WEATHER STATION

You can attach a ConsoleLink to a wireless weather station as follows:

1. Remove power from the weather station.
2. Nest the ConsoleLink into the console base as shown in diagram A.



ATTACHING THE CONSOLELINK TO A WIRELESS WEATHER STATION

3. Insert the SensorLink connector into the weather station "Junction Box" jack.
4. Reinstall the console base following the instructions in your host station manual.
The SensorLink remains outside the console base.
5. Insert the WeatherLink connector into the ConsoleLink jack as shown in diagram B.
Both the WeatherLink and SensorLink remain outside the console base.
6. Adjust the SensorLink and ConsoleLink antennas to a vertical position outside the console base.
7. Apply power once you make all the connections.

SETTING THE TRANSMITTER ID CODE

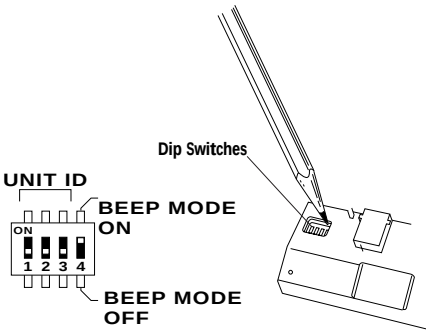
The ConsoleLink uses any of eight selectable ID codes (the default is ID Code #1). The transmitter and receiver communicate with each other only if they are both set to the same ID code. Use the default setting unless you have another Davis wireless system operating nearby which you want to work separately from the new system. The dip switch settings for the eight possible codes are shown in the table below.

ID CODE	DIP SWITCH 1	DIP SWITCH 2	DIP SWITCH 3
#1 (default)	off	off	off
#2	off	off	ON
#3	off	ON	off
#4	off	ON	ON
#5	ON	off	off
#6	ON	off	ON
#7	ON	ON	off
#8	ON	ON	ON

To change to another transmitter ID code:

- ◆ Flip dip switches 1, 2, and/or 3 on the transmitter to the desired position using the table above.

The transmitter and receiver must use the same ID code to communicate. If you change the ID code on the transmitter, then you must change the ID Code on the receiver to correspond.



CHANGING THE DIP SWITCHES

Note: Use Dip switch #4 for testing, not for ID codes. (See “Testing Data Transmission” on page 6.) When SET is on, the unit beeps each time data is transmitted.

POWERING THE CONSOLELINK

Before you apply power to the ConsoleLink, make sure that the proper connections are made. See pages 3-4 for connection options. Once you connect the ConsoleLink, apply power to the console according to the weather station manual. The weather station beeps once at power up and thereafter as follows:

- ◆ **If there is no WeatherLink plugged into the ConsoleLink, the weather station beeps once more, about eight seconds later. After another 25 seconds, the ConsoleLink beeps once.**
- ◆ **If there is a WeatherLink plugged into the ConsoleLink, the weather station beeps again twenty-three seconds later. Then, the ConsoleLink beeps twice within the next five seconds.**
- ◆ **If there is a SensorLink plugged into the console you hear a total of five beeps. The weather station beeps again twenty-three seconds later. Then the ConsoleLink beeps twice within the next five seconds. Finally, the SensorLink beeps once.**

TESTING DATA TRANSMISSION

To verify that the ConsoleLink transmits data, you need to set the unit to test mode by moving dip switch #4 to the ON position. In this mode, the ConsoleLink beeps each time the unit transmits data at about 2.5-second intervals.

TROUBLESHOOTING

While the ConsoleLink Transmitter can provide years of trouble-free operation, occasional problems may arise. If you experience a problem, please check the troubleshooting list below before calling the factory. If you are still unable to solve the problem, call the factory at (510) 732-7814 for assistance.

Please do not return your unit for repair without prior authorization.

- ◆ **The DavisTalk receiver is receiving erratic data.**
Another Davis wireless system may be operating nearby on the same ID or, a cordless phone may be operating within 10 feet of the receiver. You can try changing to a different ID code on both the receiver and the transmitter or, try moving the phone.
- ◆ **The DavisTalk receiver is not receiving any data.**
The transmitter and the receiver may be too far apart or, something in their path may be interfering, such as foliage, furnishings or, cordless phones. Set the Test Mode on the transmitter to see if it is transmitting data. Try moving the receiver closer to the transmitter or, vice versa or, eliminating possible path interferences. Verify that both the ConsoleLink and the receiver use the same ID code.
- ◆ **The ConsoleLink does not transmit data.**
Make sure that dip switch #4 is in Test Mode. If you cannot hear a beep, disconnect the power to the weather station and start again.

SPECIFICATIONS

- ◆ Transmit frequency—U.S. Model: 916.5 MHz, Overseas Model: 868.35 MHz
- ◆ ID codes—8 user selectable
- ◆ License—Low power, no license required
- ◆ Temperature range—32 to 140 °F (0 to 60°C)

FCC PART 15 CLASS B REGISTRATION WARNING

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ **Re-orient or relocate the receiving antenna.**
- ◆ **Increase the separation between the equipment and receiver.**
- ◆ **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- ◆ **Consult the dealer or an experienced radio/TV technician for help.**

Shielded cables and I/O cords must be used for this equipment to comply with the relevant FCC regulations. Changes or modifications not expressly approved in writing by Davis Instruments may void the user's authority to operate this equipment.

Product Number: 7617 & 7617OV

Davis Instruments Part Number: 7395.067
ConsoleLink™ Installation Manual
Rev. A Manual (5/11/00)
Controlled Online: Weather Manuals: DavisTalk: ConsoleLink

This product complies with the essential protection requirements of the EC EMC Directive 89/336/EC.
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