Weather Wizard III® Station

The Weather Wizard III station features the following: anemometer, inside and outside temperature sensors, junction box, and console. The console provides A/D conversion, calculations, and data display. A DC-power adapter and an 8' (2.4m) cable (for connecting the junction box and console) are included. Options include the Rain Collector, and WeatherLink (# 7862) which provides data logging and a serial interface to a computer.

General

Operating Temperature	-5° to 140° F (-20° to 60° C)
Display Temperature	32° to 140° F (0° to 60° C)
Supply Power (adapter included)	16 mA (typical) at 10 to 16 V (100 mA when display is illuminated)
Connectors	Modular (RJ-11, RJ-12, and RJ-45)
Recommended Maximum Cable Length	240' (72 m), sensor array to console
Housing Material	Black ABS plastic
Display Type	LCD
Dimensions	
Console	5.25" x 5.4" x 3.0" (133 mm x 137 mm x 76 mm)
Display	4.4" x 1.9" (112 mm x 48 mm)
Weight, total	3 lbs. 6 oz. (1.53 kg)

Sensor Inputs

RF Filtering	RC low-pass filter on each signal line

Data Displayed on Console

General

Update Interval	16 seconds
Times and Dates of Maximum and Minimum Values	Stored with value

Rainfall (requires Rain Collector)

Resolution and Units	0.01" or 0.2 mm (user-selectable)
Daily Rainfall Range	0 to 40.95" (0 to 819 mm)
Total Rainfall Range	0 to 99.99" (0 to 9999 mm)
Rainfall Accuracy	±(4% + 1 count) for rates from 0.01" to 2" (.2 mm to 50 mm) per hour
	±(5% + 1 count) for rates from 2" to 4" (50 mm to 100 mm) per hour
Functions (Period is selected by user)	Total Rainfall for period, Daily Rainfall Amount (alarm)

Temperature

Outside Temperature (Air)

Resolution and Units	1 or 0.1°F or 1 or 0.1°C° Celsius is converted from Fahrenheit
Range	-50° to 140° F (-45° to 60° C)
Accuracy	±1°F (±0.5°C)
Functions	Current Temperature (high and low alarms), Maximum and Minimum Temperatures

Inside Temperature (Air) (sensor located inside console)

Resolution and Units	1°F or 1°C.°(nominal). Celsius is converted from Fahrenheit and rounded to the nearest 1°C.
Range	32° to 140° F (0° to 60° C)
Accuracy	±1°F (±0.5°C)
Functions	Current Temperature (high and low alarms), Maximum and Minimum Temperatures

Perception and Wizard Stations

Wind

Wind Chill

    Resolution and Units . . . . 1°F or 1°C.°(nominal). Celsius is converted from Fahrenheit and rounded to the nearest 1°C.

    Range . . . . -134° to 98° F (-92° to 37° C)

    Accuracy . . . . ±4°F (±2°C)

    Functions. . . . . Current Wind Chill (alarm), Minimum Wind Chill

Wind Direction

    Display Resolution. . . . . 16 points (22.5°) on compass rose, 1° in digital display

    Accuracy . . . . ±7°

Wind Speed

    Resolution and Units . . . . 1 mph, 1 km/hr, 0.1 m/s, or 1 knot (user-selectable)

    Range (large wind cups) . . . . 2 to 150 mph, 2 to 130 knots, 1 to 67 m/s, 3 to 241 km/h

    Range (small wind cups) . . . . 3 to 175 mph, 3 to 150 knots, 1.5 to 79 m/s, 5 to 282 km/h

    Update Interval . . . . 2.25 seconds

    Accuracy (large wind cups) . . . . ±2 mph (2 kts, 3 km/h, 1 m/s) or ±5%, whichever is greater

    Accuracy (small wind cups) . . . . ±3 mph (3 kts, 5 km/h, 1.5 m/s) or ±5%, whichever is greater

    Functions. . . . . Current Speed (alarm), Maximum Speed

Time

    Accuracy . . . . ±15 seconds/month

    Functions. . . . . Current Time, Current Date

Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
7425			011698 74250 9
7425EU	18.00" x 10.25" x 3.25" (458 mm x 261 mm x 79 mm)	4.3 lbs. (2.0 kg)	011698 74251 6
7425UK			011698 74252 3
7425CS			011698 00094 4
7425CSEU	17.50" x 11.75" x 9.25" (458 mm x 299 mm x 235 mm)	8.0 lbs. (3.7 kg)	011698 00094 4
7425CSUK			011698 00094 4

Station Connection Diagram

Weather Wizard III Connection Diagram