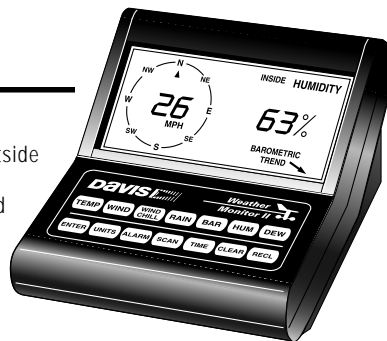


# WEATHER MONITOR II® STATION

7440  
STATIONS

The Weather Monitor II station features the following: anemometer, inside and outside temperature sensors, inside relative humidity sensor, barometric pressure sensor, 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, the External Temperature/ Humidity Sensor, and the WeatherLink, which provides data logging and a serial interface to a computer.



## SPECIFICATIONS

### General

<b>Operating Temperature</b> .....	-5° to 140° F (-20° to 60° C)
Display Temperature .....	32° to 140° F (0° to 60° C)
<b>Supply Power</b> (adapter included) .....	16 mA (typical) at 10 to 16 V (100 mA when display is illuminated)
<b>Connectors</b> .....	Modular (RJ-11, RJ-12, and RJ-45)
<b>Recommended Maximum Cable Length</b> .....	240' (72 m), junction box to console
<b>Housing Material</b> .....	Black ABS plastic
<b>Console Display Type</b> .....	LCD
<b>Dimensions</b>	
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)
<b>Weight, total</b> .....	3 lbs. 6 oz. (1.53 kg)

### Sensor Inputs

<b>RF Filtering</b> .....	RC low-pass filter on each signal line
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### Sensor Outputs (as displayed on console)

#### General

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

#### Outside Temperature (Air)

Resolution and Units .....	0.1°F or 0.1°C (user-selectable)
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 .....	0.1°F or 0.1°C (user-selectable)
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

#### Wind Speed

Resolution and Units .....	1 mph, 1 km/hr, 0.1 m/s, or 1 knot (user-selectable)
Range .....	2 to 175 mph, 4 to 280 km/hr, 0.9 to 78 m/s, 2 to 152 knots
Update Interval .....	2.25 seconds
Accuracy .....	±5%
Functions .....	Current Speed (alarm), Maximum Speed

#### Wind Direction

Display Resolution .....	16 points (22.5°) on compass rose, 1° in digital display
Accuracy .....	±7°

#### Wind Chill

Resolution and Units .....	1°F or 1°C (user-selectable)
Range .....	-134° to 98° F (-92° to 37° C)
Accuracy .....	±4°F (±2°C)
Functions .....	Current Wind Chill (alarm), Minimum Wind Chill

**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)

**Barometric Pressure** (sensor located inside console)

Resolution and Units . . . . .	0.01" of Hg, 0.1 mm of Hg, or 0.1 hPa (user-selectable)
Range . . . . .	26.00" to 32.00", 660.0 to 810.0 mm, 880.0 to 1080.0 hPa
Accuracy . . . . .	±0.05", ±1.3 mm, ±1.7 hPa (at room temperature)
Trend (change in 1 hour) . . . . .	±0.2", ±5.0 mm, ±7.0 hPa
Functions . . . . .	Current Barometric Pressure, Current Barometric Pressure Trend, Stored Barometric Pressure Reading

**Relative Humidity** (inside humidity included, requires External Temperature/Humidity Sensor for outside)

Range . . . . .	0 to 100% RH
Accuracy . . . . .	±5%
Functions . . . . .	Current RH (high and low alarms), Maximum and Minimum RH Values

**Dewpoint** (requires External Temperature/Humidity Sensor)

Resolution and Units . . . . .	1°F or 1°C (user-selectable)
Range . . . . .	-99° to 140° F (-73° to 60° C)
Accuracy . . . . .	±4°F (±2°C)
Function . . . . .	Current Dew Point

**Time**

Accuracy . . . . .	±15 seconds/month
Functions . . . . .	Current Time, Current Date

**STATION CONNECTION DIAGRAM**

**Weather Monitor II Connection Diagram**

