Perception II® Station

Perception and Wizard Stations

The Perception II station features the following: inside temperature and humidity sensors, barometer, and console. The console provides A/D conversion, calculations, and data display. A DC-power adapter is included. The WeatherLink, an optional feature, 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)
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

All data display categories are displayed in alphabetical order:

Barometric Pressure (sensor located inside console)

Resolution and Units . . . . Measured in 0.01" Hg. Other units are converted from Hg and rounded to nearest 0.1 mm, 0.1 hPa, 0.1mb.
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

General

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

Inside Temperature (Air) (sensor located inside console)

Resolution and Units . . . . 1 or 0.1°F or 1 or 0.1°C.°. Celsius is converted from Fahrenheit
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

Relative Humidity

Resolution and Units 1%
Range . . . . 10 to 90% RH
Accuracy . . . . ±5%
Functions. . . . . Current Inside Relative Humidity (high and low alarms), Maximum and Minimum Relative Humidity Values

Time

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

Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
7400	10.00" x 7.50" x 3.25" (254 mm x 190 mm x 83 mm)	1.5 lbs. (0.7 kg)	011698 74000 0
7400EU			011698 74001 7
7400UK			011698 74002 4

Station Connection Diagram

Perception II Connection Diagram