ProWeatherStation™

Features

- **No Assembly Required – Easy setup**
- **48 sec data update, instantaneous average and peak**
- **Inside and Outside Temperature and Humidity**
- **Solar Insolation and UV Index Measurement**
- **Wind Speed and Direction Including Average and Gust**
- **Wind Chill and Dew Point Temperature Display**
- **Barometric Pressure with last 12hr history, Weather Forecast**
- **Rain Gauge with Last Hour, Day, Week, Month or Total**
- **Built-in Data Logging for 4080 Readings: Unlimited with PC**
- **Settable Alarms and Resettable Min/Max History**
- **User Programmable Calibration Factors**
- **Up to 330 Ft (100m) Wireless Range Between Transmitter and Base Station**
- **Solar Powered Transmitter with 2 AA Batteries for backup.**
- **Free WeatherSmart WiFi Windows Software**

ProWeatherStation™

Applications

- **Weather Tracking and Forecasting**
- **Solar Insolation Site Survey – Measure how much sun power is available at a particular site**
- **Wind Turbine Site Survey – Record wind speed at site over time to determine available true wind power**
- **Remote Temperature and Humidity Monitoring**

Description

The ProWeatherStation™ is a high performance wireless data logging weather station with advanced sensor technology resulting in good accuracy at a low cost. It provides instantaneous and historical data on Inside and Outside Temperature and Humidity, Wind Speed (average and gust), Wind Direction, Solar Intensity and UV Index, Barometric Pressure and Rainfall. The backlit base station logs 4080 data points with adjustable sample interval. There is a memory meter on the display that shows when the memory is getting full so the data can be downloaded and archived to a computer thru WiFi and the included WeatherSmart WiFi software. The base station also allows automatic upload of data to Weather Underground and Weather Cloud via WiFi with no PC necessary.

The unit has an internet clock for improved accuracy. The Base Station runs on 3 AA Alkaline or Lithium batteries and can be mounted up to 100m (330 feet) away from the transmitter/sensor array. To use the WiFi feature, the Base Station must be powered with the included 5V power adapter. The transmitter/sensor array is solar powered and requires 2 AA batteries (included) for backup power.

The ProWeatherStation™ comes with an advanced solar powered sensor array (anemometer, wind direction meter, temp/humidity sensor, rain gauge, solar/light sensor), Ubolt brackets for mounting to a 1-1.6" pole, WiFi enabled wireless base station/display, 5V AC/DC adapter, and WeatherSmart WiFi Windows software. Note: 3 AA alkaline or Lithium batteries for the base station backup power are not included.
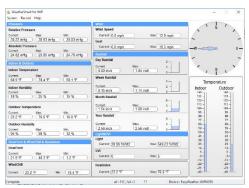
ProWeatherStation™

Specifications
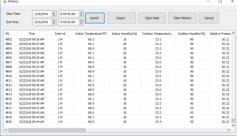
WeatherSmart WiFi Software

Main WeatherSmart Screen

Stored Data in Text Format – can export to Excel

Stored Data in Graph Format

Display Ranges

Wind Speed	0-112 MPH (0-50m/s) *Accuracy: +/- 1m/s (<10 m/s) +/- 10% (>10 m/s)* *Displays in mph, m/s, km/h, knots or Beaufort*
Outdoor Temperature	-40 to 65°C (-40 to 149°F) 0.1 °C resolution *Displays in °C or °F Accuracy: +/-1°C*
Indoor Temperature	0 to 50°C (32 to 122°F) 0.1 °C resolution *Displays in °C or °F Accuracy: +/-1°C*
Humidity	1% to 99% (1% resolution) Basic Accuracy: +/-10% @25C 30-80% *Accuracy: +/-5% @25C*
Rain Gauge	0-9999mm (394 inches) 0.1mm resolution (<1000mm) 1.0mm (>1000mm) *Accuracy: +/- 10%* *Displays in mm or inches (hour,day,week,month or total)*
Barometric Pressure	8.85 to 32.5 inHg 0.01inHg resolution Within range 27.13 to 31.89 inHg *Accuracy: +/-3 hpa* *Displays in inHG or hPa*
Wind Direction	LCD Compass 22.5° resolution
Light Measurement	0-300,000 lux

Wireless Transmitter / Sensor Array

Operating Frequency	433 MHz
Update Interval	48 secs
Operating Distance	Up to 100 meters (300 feet) between transmitter and base station
Wind Survivability	200 km/h (125 mph)
Construction	UV resistant white thermoplastic
Power Source	Solar Powered, AA Batteries (included) for backup
Mounting	Top of Pole (1-1.6" dia) mount using 2 stainless u-bolts

Base Station Specs

Setup	Base Station or Computer (WiFi setup via smartphone app – WSTOOLS)
Display	Backlit LCD, White Colored Frame
Memory Capacity	4080 data samples (memory meter on display)
Computer Interface	WiFi
Included Software	WeatherSmart WiFi Windows software
Batteries	3 type AA LR6 Alkaline (not included) gives 1 year battery life. To extend battery life, Base Station can also be powered via 5V AC adapter (included).
Dimensions (L x W x H)	177 x 152 x 50mm (7" x 6" x 2")
Mounting	Wall or desktop

General Specs

Settable Alarms	Temp, Humidity, Wind Chill, DewPoint, Rainfall, Wind Speed, Wind Gust, Barometric Pressure, Light, UV Index, Heat Index
Alarm duration	Up to 120 seconds
Time Setting	Automatic thru Internet, Perpetual Calendar
Time Display	12hr or 24hr
Shipping Weight	2.3kg (5lbs)
Warranty	1 Year
System Ordering	TP3000WC Data Logging Wireless Solar WiFi Weather Station

For further information contact: Tyconsystems.com

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