Low-Cost Modular Weather Station

WMS14 Series

$1495
Basic Unit

- Durable Modular Design for Easy Configuration
- 30-Day Memory; Set and Forget Operation
- Stores ASCII Data with Time Tags
- Real-Time VGA Graphical Display
- Exceeds Industry Standards for Performance and Price

The WMS-14 Modular Weather Station is a personal computer-based weather station capable of simultaneously recording wind speed, wind direction, temperature, relative humidity, barometric pressure, and rainfall. It automatically measures and stores outdoor weather conditions at user-selected intervals of 1 to 60 minutes for up to one month in an internal memory module.

The Model WMS-14 provides a sophisticated yet way-to-use system for retrieving, storing, and displaying information. Data flows to and from the weather station at speeds up to 9600 BPS using a standard ASCII terminal protocol via an RS-232 serial interface. With simple numeric commands, the user can choose to either view the real time report page or view the log of historical data. Data logs are quickly transferred to a disk file for storage or for graphing and numerical analysis. A colorful VGA graphical display is readily available to view real-time data.

The Model WMS-14 features a combination wind vane and three-cup anemometer with 40 feet of interconnecting cable (which may be extended to 300 feet), a temperature and relative humidity sensor with sun shield, a solid state barometric pressure sensor, and, a self-emptying rain gauge.

Specifications
GENERAL
Reporting Units: English/metric, all measurements user selectable
Operating Power: 9-12 Vdc
Power Consumption: 60 mA maximum
Communications: 9-pin D-subminiature, 9600 bps, flow control

Battery Back-Up: 9 Volt battery, lasts 30 hrs minimum
Memory: 32 kB Ram
Operating Temperature Transducers: -40 to 60°C (-40 to 140°F)
Data Acquisition Module: -3 to 43°C (25 to 110°F)
To Order (Specify Model No.)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Description</th>
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<tbody>
<tr>
<td>WMS-14</td>
<td>$1495</td>
<td>Complete weather station with tripod mast</td>
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<tr>
<td>WMS-14EPA</td>
<td>1735</td>
<td>Complete weather station with high sensitivity wind sensor.</td>
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<tr>
<td>WMS-14D</td>
<td>495</td>
<td>Data Acquisition module</td>
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<td>WMS-05D</td>
<td>450</td>
<td>High sensitivity wind/speed direction sensor</td>
</tr>
<tr>
<td>WMS-14TH</td>
<td>250</td>
<td>Outdoor temperature/humidity sensor, with 25' cable</td>
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<tr>
<td>WMS-14THS</td>
<td>90</td>
<td>Solar radiation shield for temp/RH sensor</td>
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<tr>
<td>WMS-14BP</td>
<td>200</td>
<td>Barometric Pressure</td>
</tr>
<tr>
<td>WMS-14RF</td>
<td>125</td>
<td>Rainfall collector, 25' cable</td>
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<tr>
<td>WMS-14TM</td>
<td>90</td>
<td>Tripod mast 10'</td>
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WMS-14 comes complete with outdoor temperature/humidity sensor with 25' cable, barometric pressure sensor, solar radiation shield, rain collector plus 25' cable, 10' tripod mast, data acquisition module, plus complete operator's manual.

Ordering Example: WMS-14 weather station with mast ($1495) plus WMS-EC-40 extension cable ($40), $1495 + 40 = $1535.

Accessories

<table>
<thead>
<tr>
<th>Model No.</th>
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<th>Description</th>
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<tbody>
<tr>
<td>WMS-EC-40</td>
<td>$20</td>
<td>40' Extension cable for wind sensor</td>
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<tr>
<td>WMS-RGC-40</td>
<td>20</td>
<td>40' Extension cable for rain sensor</td>
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<tr>
<td>WMS-TC-40</td>
<td>24</td>
<td>40' Extension cable for temperature humidity sensor</td>
</tr>
</tbody>
</table>
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**