



# Spectrum WatchDog 3240 WiFi/Cellular Weather Station

## Product Images



## Short Description

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**Use field-specific weather data for timing fungicide applications, nutrient management and field activities.**

The fully integrated WatchDog 3240 measures temperature, humidity, rainfall, and wind speed & direction, recording and communicating the data to the cloud using its internal modem or radio.

Receive alerts via automated phone call, text message, and/or email immediately when measurements cross your selected thresholds.

View reports of current conditions or historical data from any location.

## Description

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### Key Features

- Bluetooth connectivity to your smartphone via the WatchDog Mobile App
- Sends data to the SpecConnect Cloud Solution - View current conditions or historical data using a broad selection of analytical reports from anywhere in the world.
- Integrated solar power
- All models have integrated USB, Bluetooth, and RS232 communications. Select version with either WiFi or Cellular modem.
- Internal data logger holds 18 months of data at a 15-minute recording interval. Data can be transferred to a USB flash drive.
- Easy to install - be running in minutes.
- Choose from a huge range of optional external sensors including soil moisture, UV, leaf wetness and many more.
- Receive the latest changes with over-the-air updates (also available via a USB flash drive).
- The durable enclosure provides moisture, corrosion, and UV protection for increased reliability in harsh environments.
- Designed and manufactured in the USA to provide the quality data you can rely on.
- Can connect to a Spectrum Retriever & Pup Network.

# Additional Information

| Brand                              | Spectrum Technologies  |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
|------------------------------------|--|----------------------|------------------------|---------------------------|---------------------------------------|---------------------------------|-------|-----------------|---|---|---|---|---------------------------------|-------------------|---|---|---|---|-----------|----------|----------|---|---|---|-------------------------------|------------|---|---|---|---|---------------------------------------|----------------|---|---|---|---|-----------------------|-----------------|------------------|------------------|------------------|---|----------------|------------------------------------|---|---|---|---|--|
| Country of Manufacture             | United States  |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Explanation                        | <ul style="list-style-type: none"><li>• <b>External Communication:</b> Cellular, USB, Bluetooth, RS232</li><li>• <b>External Sensor Ports:</b> 1 x 2.5mm stereo jack (0 to 3.0VDC analog input)</li><li>• <b>Data capacity:</b> 30,000 data intervals can be stored on the unit before the oldest record is overwritten by the newest data (312 days at 15 minute intervals).</li><li>• <b>LED:</b> 3-colour (Red, Amber, Green)</li><li>• <b>Operating Temperature Range:</b> -30° to 55°C</li><li>• <b>Dimensions (HxLxW):</b> 30.5 x 49.5 x 28.6 cm (without 18.4 cm antenna)</li><li>• <b>Weight:</b> 4.50 kg</li></ul> <h3>Communication Options</h3> <ul style="list-style-type: none"><li>• Item 3240WF has a WiFi Modem</li><li>• Item 3240ME has an LTE-M cellular modem, providing LTE CAT-M1 and NB-IoT communications</li><li>• Item 3240DR has a Data Recorder - No Modem.</li></ul> <h3>3000 Series Stations Comparison</h3> <table><tr><th></th><th>3210MU<br/>Temp Alert</th><th>3220MU<br/>Rain Station</th><th>3240MU<br/>Weather Station</th><th>3250MU<br/>ET Station</th><th>Range</th></tr><tr><td>Air Temperature</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>-40° to 257°F<br/>(-40 to 125°C)</td></tr><tr><td>Relative Humidity</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>0 to 100%</td></tr><tr><td>Rainfall</td><td>Optional</td><td>✓</td><td>✓</td><td>✓</td><td>0.01" (0.254mm<br/>resolution)</td></tr><tr><td>Wind Speed</td><td>✗</td><td>✗</td><td>✓</td><td>✓</td><td>0, 1 to 200 mph<br/>(0, 1 to 322 km/h)</td></tr><tr><td>Wind Direction</td><td>✗</td><td>✗</td><td>✓</td><td>✓</td><td>1-359°, 1° increments</td></tr><tr><td>Solar Radiation</td><td>Opt. (ext. port)</td><td>Opt. (ext. port)</td><td>Opt. (ext. port)</td><td>✓</td><td>0 to 1500 W/m2</td></tr><tr><td>Available External<br/>Sensor Ports</td><td>2</td><td>2</td><td>2</td><td>1</td><td></td></tr></table> |                      | 3210MU<br>Temp Alert   | 3220MU<br>Rain Station    | 3240MU<br>Weather Station             | 3250MU<br>ET Station            | Range | Air Temperature | ✓ | ✓ | ✓ | ✓ | -40° to 257°F<br>(-40 to 125°C) | Relative Humidity | ✓ | ✓ | ✓ | ✓ | 0 to 100% | Rainfall | Optional | ✓ | ✓ | ✓ | 0.01" (0.254mm<br>resolution) | Wind Speed | ✗ | ✗ | ✓ | ✓ | 0, 1 to 200 mph<br>(0, 1 to 322 km/h) | Wind Direction | ✗ | ✗ | ✓ | ✓ | 1-359°, 1° increments | Solar Radiation | Opt. (ext. port) | Opt. (ext. port) | Opt. (ext. port) | ✓ | 0 to 1500 W/m2 | Available External<br>Sensor Ports | 2 | 2 | 2 | 1 |  |
|                                    |  | 3210MU<br>Temp Alert | 3220MU<br>Rain Station | 3240MU<br>Weather Station | 3250MU<br>ET Station                  | Range                           |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
|                                    | Air Temperature  | ✓                    | ✓                      | ✓                         | ✓                                     | -40° to 257°F<br>(-40 to 125°C) |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
|                                    | Relative Humidity  | ✓                    | ✓                      | ✓                         | ✓                                     | 0 to 100%                       |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
|                                    | Rainfall   | Optional             | ✓                      | ✓                         | ✓                                     | 0.01" (0.254mm<br>resolution)   |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Wind Speed                         | ✗  | ✗                    | ✓                      | ✓                         | 0, 1 to 200 mph<br>(0, 1 to 322 km/h) |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Wind Direction                     | ✗  | ✗                    | ✓                      | ✓                         | 1-359°, 1° increments                 |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Solar Radiation                    | Opt. (ext. port)   | Opt. (ext. port)     | Opt. (ext. port)       | ✓                         | 0 to 1500 W/m2                        |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Available External<br>Sensor Ports | 2  | 2                    | 2                      | 1                         |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Ideal For                          | Professional, Agronomy   |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Measurements                       | Humidity, Leaf Wetness, PAR/Quantum Light, Rainfall, Soil Moisture, Solar Radiation, Temperature, UV, Wind Direction, Wind Speed   |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Typical applications               | Environmental (Outdoor), Field Research, Weather Monitoring  |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Power                              | Integrated 3.5W solar panel, rechargeable 6V/4.5AH SLA battery, optional AC/DC power adapter. Battery life 14 days minimum with no solar power.  |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |
| Installation                       | Simple installation - mounts to a 1.25 inch mast (U-bolts included). Best installed on a tripod (select from 'Mounting Options' above).  |                      |                        |                           |                                       |                                 |       |                 |   |   |   |   |                                 |                   |   |   |   |   |           |          |          |   |   |   |                               |            |   |   |   |   |                                       |                |   |   |   |   |                       |                 |                  |                  |                  |   |                |                                    |   |   |   |   |  |

## Additional Options

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|---|--|
| <b>Select Required Data Communication Method</b>                                | LTE-M Cellular Version (SKU: SI-3240ME)  |
|   | WiFi Version (SKU: SI-3240WF)  |
|   | 868MHz Pup Version (SKU: SI-3240DE)  |
| <b>SpecConnect (required for the product to function properly)</b>              | SpecConnect Web Portal - Pro Subscription (1 Year) WiFi                                  |
|   | SpecConnect Web Portal Pro Subscription (1 Year) - Cellular                              |
|   | SpecConnect Initial Setup Fee  |
| <b>Optional Sensors (hold down Ctrl &amp; click to select multiple options)</b> | SpecConnect Phone Alerts 1 Yr Subscription)  |
|   | Silicon Pyranometer Sensor   |
|   | UV Light Sensor  |
|   | Quantum / PAR Light Sensor   |
|   | 3 Sensor Quantum / PAR Light Bar   |
|   | 6 Sensor Quantum / PAR Light Bar   |
|   | SM 100 Soil Moisture Sensor (with 1.8m cable)  |
|   | SM 100 Soil Moisture Sensor (with 6.1m cable)  |
|   | SMEC 300 (Soil Moisture/EC/Temperature) Sensor with (with 1.8m cable)                    |
|   | SMEC 300 (Soil Moisture/EC/Temperature) Sensor with (with 1.8m cable)                    |
|   | SMEC 300 EC Calibration Device   |
|   | External Soil/Air/Water Temperature Sensor (with 1.8m cable)                             |
|   | External Soil/Air/Water Temperature Sensor (with 6.1m cable)                             |
|   | Tensiometer Pressure Transducer  |
|   | Irrigation On/Off Sensor   |
|   | Temperature Micro Sensor (to measure surface temperature of leaves & other applications) |

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|   | Leaf Wetness Sensor                                    |
| Mounting Options  | Universal Mounting Pole Kit (WS-7717) (Limited Offer)! |
|   | Davis Mounting Pole Kit (DI-7717)                      |
|   | Davis EZ-Mount Tripod (DI-7716)                        |
| Handheld Anemometer (to help you position weather station wind sensor in optimum location for maximum wind) | Kestrel 1000 (Pro-quality, made in USA)                |