



# Spectrum WatchDog 3210 WiFi/Cellular Frost/Temperature Alert Station

## Product Images



## Short Description

Monitor your crops using real-time temperature data and effectively prepare for extreme weather conditions.

Receive alerts via automated phone call, text message, and/or email immediately when temperature crosses 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>Dimensions (w/Antenna):</b> 49.53 cm H x 49.53 cm L x 28.58 cm W</li> <li>• <b>Weight:</b> 4.49 kg</li> <li>• <b>Operating Temperature Range:</b> -30° to 55°C</li> </ul> <p><b>Communication Options</b></p> <ul style="list-style-type: none"> <li>• Item 3210ME has an LTE-M cellular modem, providing LTE CAT-M1 and NB-IoT communications</li> <li>• Item 3210WF has a WiFi Modem</li> <li>• Item 3210DR is a Data Logger only (No Modem).</li> </ul> <p><b>3000 Series Stations Comparison</b></p> <table border="1"> <thead> <tr> <th></th> <th>3210MU Temp Alert</th> <th>3220MU Rain Station</th> <th>3240MU Weather Station</th> <th>3250MU ET Station</th> <th>Range</th> <th></th> </tr> </thead> <tbody> <tr> <td>Air Temperature</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-40° to 257°F (-40 to 125°C)</td> <td>±0.54°</td> </tr> <tr> <td>Relative Humidity</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>0 to 100%</td> <td>±2%</td> </tr> <tr> <td>Rainfall</td> <td>Optional</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>0.01" (0.254mm) resolution</td> <td>±2% at</td> </tr> <tr> <td>Wind Speed</td> <td>✗</td> <td>✗</td> <td>✓</td> <td>✓</td> <td>0, 1 to 200 mph (0, 1 to 322 km/h)</td> <td>±2 mp</td> </tr> <tr> <td>Wind Direction</td> <td>✗</td> <td>✗</td> <td>✓</td> <td>✓</td> <td>1-359°, 1° increments</td> <td></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> <td></td> </tr> <tr> <td>Available External Sensor Ports</td> <td>2</td> <td>2</td> <td>2</td> <td>1</td> <td></td> <td></td> </tr> </tbody> </table>		3210MU Temp Alert	3220MU Rain Station	3240MU Weather Station	3250MU ET Station	Range		Air Temperature	✓	✓	✓	✓	-40° to 257°F (-40 to 125°C)	±0.54°	Relative Humidity	✓	✓	✓	✓	0 to 100%	±2%	Rainfall	Optional	✓	✓	✓	0.01" (0.254mm) resolution	±2% at	Wind Speed	✗	✗	✓	✓	0, 1 to 200 mph (0, 1 to 322 km/h)	±2 mp	Wind Direction	✗	✗	✓	✓	1-359°, 1° increments		Solar Radiation	Opt. (ext. port)	Opt. (ext. port)	Opt. (ext. port)	✓	0 to 1500 W/m2		Available External Sensor Ports	2	2	2	1		
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Ideal For	Professional, Agronomy																																																								
Measurements	Humidity, Leaf Wetness, PAR/Quantum Light, Soil Moisture, Solar Radiation, Temperature, UV																																																								
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

<b>Select Required Data Communication Method</b>	LTE-M Cellular Version (SKU: SI-3210ME)
	WiFi Version (SKU: SI-3210WF)
	868MHz Pup Version (SKU: SI-3210DE)
<b>SpecConnect (required for the product to function properly)</b>	SpecConnect Web Portal Pro Subscription (1 Year) - WiFi
	SpecConnect Web Portal Pro Subscription - 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)
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	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)
	Tipping Bucket Rain Collector
	Tensiometer Pressure Transducer
	Irrigation On/Off Sensor
	Temperature Micro Sensor (to measure surface temperature of leaves & other applications)

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)