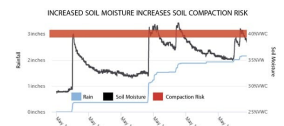




# Spectrum WatchDog 3220 WiFi/Cellular Rain, Temp & Humidity Station

## Product Images



## Short Description

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**Collect real-time, site-specific data to prevent flooding, schedule pesticide/fertiliser applications, and adjust irrigation schedules.**

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	<div><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 (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><li>• <b>Operating Temperature Range:</b> -30° to 55°C</li></ul><b>Communication Options</b><ul style="list-style-type: none"><li>• Item 3220WF has a WiFi Modem</li><li>• Item 3220ME has an LTE-M cellular modem, providing LTE CAT-M1 and NB-IoT communications</li><li>• Item 3220CE has a LTE-CAT4 cellular modem.</li></ul><b>3000 Series Stations Comparison</b><table><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></tr><tr><td>Air Temperature</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>-40° to 257°F (-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 resolution)</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></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 Sensor Ports</td><td>2</td><td>2</td><td>2</td><td>1</td><td></td></tr></table></div>		3210MU Temp Alert	3220MU Rain Station	3240MU Weather Station	3250MU ET Station	Range	Air Temperature	✓	✓	✓	✓	-40° to 257°F (-40 to 125°C)	Relative Humidity	✓	✓	✓	✓	0 to 100%	Rainfall	Optional	✓	✓	✓	0.01" (0.254mm resolution)	Wind Speed	✗	✗	✓	✓	0, 1 to 200 mph (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 Sensor Ports	2	2	2	1	
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Ideal For	Professional, Agronomy																																																
Measurements	Humidity, Leaf Wetness, PAR/Quantum Light, Rainfall, Soil Moisture, Soil Temperature, Solar Radiation, Temperature, UV, Water Temperature																																																
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-3220ME)
	WiFi Version (SKU: SI-3220WF)
	LTE-CAT4 Cellular Version (SKU: SI-3220CE)
	868MHz Pup Version (SKU: SI-3220DE)
<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)
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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)
	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)