

2000 Series Weather Stations



Model 2900ET
Shown with optional
Tripod Mount
(Tripod not included)



Our award winner for Innovation in Technology. **Manage your crop based on YOUR weather**, not the airport's.

- Full-featured weather stations measure temperature, humidity, rainfall, wind, and solar radiation (varies by model). Also calculates degree days and chill hours
- Customize your station with plug-in sensors to meet your needs
- Accurate, real-time weather information directly from your field, orchard or vineyard
- Monitor, record, and analyze over a dozen important environmental inputs
- Log your data in fail-safe, non-volatile memory
- Choose measurement intervals from 1 to 60 minutes (holds 183 days of data with a 30 minute interval)
- Multiple PCs can access the station without impacting data collection

- Use the LCD display to check all current and daily high/low readings without a PC
- Communicate via wireless, cellular, shuttle, or direct connect, also compatible with the new WatchDog Station Pups and DataScout™ Modems
- Powered by four AA batteries - 10 months battery life with alkaline (included), 12 months with lithium
- Requires SpecWare™ Pro software or DataScout Modem and SpecConnect




2900ET

Model 2900 ET

- The most powerful package for optimizing your irrigation and IPM decisions
- Measures wind direction, wind speed, air temperature, relative humidity, dew point, rainfall, solar radiation, evapotranspiration, with 5 available external sensor ports

3350WD2 WatchDog® 2900ET Weather Station




2550

Model 2550

- Ideal for fast, on-demand deployment without measuring rainfall
- Measures wind direction, wind speed, air temperature, relative humidity, dew point, with 6 available external sensor ports

3320WD2 WatchDog® 2550 Weather Station



2800

Model 2800

- Ideal where multiple sensor measurements are required for temperature, soil moisture, crop canopy light, or leaf wetness data
- Plug in up to 8 external sensors, plus 1 optional rainfall sensor

3345WD2 WatchDog® 2800 Weather Station

Model 2700

- Affordable and versatile solution for growers, researchers, and consultants
- Measures wind direction, wind speed, air temperature, relative humidity, dew point, rainfall, with 6 available external sensor ports

3340WD2 WatchDog® 2700 Weather Station

WATCHDOG 2000 SERIES WEATHER STATION FEATURES						
Sensors	2900ET	2700	2550	2800	Specifications	Accuracy
Wind Direction	✓	✓	✓		1°	±3°
Wind Speed	✓	✓	✓		0, 1 to 200 mph (0, 1 to 322 km/h)	±2 mph (±3 km/h) , ±5%
Air Temperature	✓	✓	✓	OPT	-40° to 257°F (-40° to 125°C)	±0.54°F at -40 to 194°C(±0.3°C)
Relative Humidity	✓	✓	✓		0% to 100%	±2% at 25°C
Dew Point	✓	✓	✓		-99° to 140°F (-73° to 60°C)	±4°F (±2°C)
Rainfall	✓	✓		OPT	0.01 in (0.25 mm)	±2% at < 2 in (5 cm) per hour
Solar Radiation	✓	OPT	OPT	OPT	0 to 1500 W/m²	±5%
Evapotranspiration	✓					
External Sensor Ports	5	6	6	9		
Available ports for SMEC 300 Sensors	1	2	2	2		
Operating temperature range: -22 to 130°F (-30 to 55°C)						




WatchDog® 2000 Series Mini Stations



2000 Series Mini Stations

Monitor microclimates with up to 4 external sensor channels.



- Same power, flexibility, and accuracy as the 2000 Series Weather Stations
- Measure temperature, humidity, quantum light, and more (varies by model). Also monitors degree day models and chill hour data
- Customize your Mini Station with 1 to 4 plug-in sensors to meet your needs
- Accurate, real-time weather information directly from where you grow
- Log your data in fail-safe, non-volatile memory
- Choose measurement intervals from 1 to 60 minutes (holds 198 days of data with a 30 minute interval). Capacity is 89 days when using WaterScout SMEC 300 sensors
- Reliable NEMA-4 type IP 66 enclosure and weatherproof connectors
- Use the LCD display to check current and daily high/low readings without a PC
- Run disease models on the station, providing field viewing of disease severity indicators
- Use the optional alarms to warn if a sensor exceeds high and low limits
- Communicate via wireless, cellular, shuttle, or direct connect also compatible with the new WatchDog® Station Pups, DataScout™ Modems
- 12-month battery power source (four AA alkaline batteries included)
- Requires SpecWare™ Basic or Pro software, or DataScout™ Modem and SpecConnect



Model 2475 Plant Growth Station

- Ideal for greenhouses - includes sensors for quantum (PAR) light, air temperature, relative humidity, with 1 available external sensor port
- Computes and displays Daily Light Integral (DLI), dew point and degree days; live display of current light and cumulative light over the day
- Computes and displays DIF – Average day/night temperatures differences
- Computes and displays VPD – Vapor Pressure Deficit

3686WD Model 2475 WatchDog® Weather Station

Model 2400 External Sensor Station

- Ideal where multiple sensor measurements are required for temperature, soil moisture, crop canopy light, or leaf wetness data
- Plug in up to 4 external sensors

3685WD Model 2400 WatchDog® Weather Station

LCD display on all 2000 Series Mini Stations

Model 2425 Temperature Station

- Measures air temperature with 3 available external sensor ports
- Plug in up to 3 external sensors

3683WD Model 2425 WatchDog® Weather Station

Model 2450 Temperature/RH Station

- Measures air temperature, relative humidity, with 2 available external sensor ports
- Computes and displays dew point.

3684WD Model 2450 WatchDog® Weather Station



WATCHDOG® 2000 SERIES MINI WEATHER STATION FEATURES						
Sensors	2475	2450	2425	2400	Specifications	Accuracy
Air Temperature	✓	✓	✓	OPT	-25° to 212°F (-32° to 100°C)	±1°F (±0.5°C)
Relative Humidity	✓	✓			10% to 100%	±3% at 20% to 100% and 25°C
Dew Point	✓	✓			-99° to 140°F (-73° to 60°C)	±4°F (±2°C)
Quantum Light (PAR)	✓	OPT	OPT	OPT	0 to 2500 μmol·m ⁻² ·s ⁻¹	±5%
External Sensor Ports	1	2	3	4		
Available ports for SMEC 300 Sensors	1	2	3	4		
Operating temperature range: -22 to 130°F (-30 to 55°C)						

What Do You Want To Measure?

You can customize your WatchDog network, using different sensors based on the data you want to collect and analyze for better output performance.