

### Computer Weather Station

Wadsworth's weather station monitors seven outdoor weather conditions. This information can protect your greenhouse structure and it increases the decision making power of your controls.

The Weather Station monitors:

- Temperature
- Humidity
- Wind Speed
- Wind direction
- Precipitation
- Light Intensity
- Accumulated Light



Temperature Sensor	
Data Measurement Range	-40°C to 100°C (-40°F to 212°F)
Accuracy	< 1°C error over a 100°C range
Resistance	< 1 Ω dynamic impedance
Response Time	80 seconds in still air, ~15 seconds aspirated
Humidity Sensor	
Data Measurement Range	0 to 100% Relative Humidity non-cond.
Accuracy	±2% RH
Repeatability	±0.5% RH
Response Time	~15 seconds aspirated
Light Sensor (Pyranometer)	
Data Measurement Range	300 to 1100 nm
Stability	1 to 2 percent error per year As compared to an Eppley Precision Spectral Pyranometer
Cosine Correction	Corrects for sun angle near sunrise and sunset
Precipitation Detector - Rain Grid	
Nature	Fiberglass reinforced polyester resin with polarized, parallel gold plated copper sensing traces...the water completes the circuit
Wind Speed Indicator	
Nature	Hollow conical tri-cup
Material	Cast Zinc
Range	0 to 225 mph +
Resolution	1 mph
Wind Direction Indicator	
Nature	Vane
Material	Zinc casting and stainless steel
Range	Infinite revolutions, 0 - 360°
Resolution	16 compass points or ±11¼°

All of the computerized STEP controls (EnviroSTEP, VersiSTEP and microSTEP) at one location can share the readings from a single weather station.