

Heron Weather Stations

To optimise your growing conditions, Heron supply a complete range of weather stations to integrate with our irrigation and environmental controllers. Heron weather stations can be customised to include the sensors you require. The most common configurations for the weather stations are detailed below and over the page.

Our weather stations will work with all Heron irrigation and environmental controllers. Data from the weather stations can be logged using Heron's Ground Control software.

Full Weather Station - Irrigation

For irrigation applications, the full weather station provides the most accurate calculation of evapo-transpiration (ET) and hence the most accurate control of your irrigation schedule.



The resultant ET value can be used to control the individual programs you set

The complete weather station for irrigation applications includes the following sensors:

- Rain gauge
- Temperature
- Light
- Humidity
- Wind Speed & Direction

The individual sensors of the weather station can also operate independently of each other to control the irrigation. For example:

- The light and temperature sensors can initiate an irrigation sequence once a threshold has been reached
- The light sensor can control irrigation cycling by integrating the light power over time to give an energy level. Up to 8 energy level thresholds can be set to control 8 different irrigation programs
- The wind sensor can disable irrigation based on direction and speed

Weather Stations - Environmental

The full weather station for environmental control applications includes the following sensors

- Raining
 - Temperature
 - Light
 - Wind speed and wind direction
- The raining sensor will detect rain fall immediately so the vents can be closed.
 - The temperature sensor is used to control thermal screen and has control over the vents on low temperature.
 - Light power is used to control shading.
 - Wind speed and direction will control the operation of vents.



This weather station is available in simpler configurations. A common simplified configuration for this weather station includes a wind speed, a wind direction and a raining sensor.

Wind Station

The Heron wind station consists of a wind direction, a wind speed sensor and the interface to connect to an irrigation controller.

This simple wind only weather station is ideal for applications such as dust suppression and controlling fountains.



Weather Station Sensor Specifications

Temperature Sensor	Accurate to 0.1°C Range: -10°C - 50°C
Light Sensor	Range: 8 – 2,000 Watts/cm ² 420 – 675 nm
Humidity Sensor	Range: 0 – 100 % RH Accuracy: +/- 3%
Raining Sensor	Will detect as low as 0.005mm of rainfall
Rain Gauge	Accurate to +/- 1mm of rainfall
Wind Sensor	Direction: 8 sectors Speed: 5 – 120 kph

Multiple controllers can share one weather station and/or sensors by using the Heron repeater boxes. The repeater box can also be used to extend the distance that the weather station is mounted remotely from the controller. Usually the maximum cable run is 200m of three core cable.

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