

WebGen Software (WG10)

WebGen creates a web page (html file) of live weather data that can be viewed in a web browser. This means you can view your weather data anywhere in the world via an internet connection.

Optionally, alarm monitoring for any sensor, including the evaporation rate can be enabled.

Features

- Updates every minute.
- Compatible with any of Envirodata's WeatherMaster series weather stations.
- Runs on a Windows-based PC, with an intranet or internet connection.

Applications

- Industrial Monitoring, with alarm conditions,
- Community weather information
- Feedlot microclimate monitoring
- Environmental Monitoring

Details

Every minute, WebGen gets the current readings from the weather station, tests for any alarm conditions, and creates the updated web page automatically.

WebGen can be used in several ways:

1. Create a web page that can be viewed only on the computer running the software. (Local)
2. Create a web page that is to be viewed on an internal network (intranet).
3. Create a web page that can be viewed on the world wide web (internet).

Alarm Functions:

The alarm function in WebGen acts by changing the background colour of the sensor concerned, so that you can see at a glance if there is an alarm condition present. For each enabled alarm, the alarm trip point(s) are shown so that the severity of the current alarm(s) can be interpreted.

An alarm can be set on each of the sensors, as well as on system diagnostics, such as battery voltage.

| Weather Master 2000 Warwick, QLD | | | |
|---|--------------------------------|-------------|-------|
| Date: 2005/10/18 | | Time: 13:40 | |
| Title: "15 Min. Airdata,Evap & Baro:15maebp.wm" | | | |
| Sensor | Name | Value | Units |
| 1 | Air Temperature (>20) | 22.1 | DegC |
| 2 | Wind Speed | 10.3 | km/h |
| 3 | Wind Direction | 151 | Deg |
| 4 | Solar Radiation | 141 | W/m2 |
| 5 | Relative Humidity | 42.2 | % |
| 6 | Rainfall | 0.0 | mm |
| 7 | Battery Voltage (<6.0 or >7.2) | 7.1 | V |
| 8 | Solar Panel | 10.0 | V |
| 9 | Abs. Barometer | 961 | hPa |
| 12 | Peak Wind Gust | 14.0 | km/h |
| 15 | Evaporation | 11.704 | mm |
| This web page refreshes every 60 seconds | | | |

Figure 1: Typical Web Page from WebGen

Each sensor alarm can be set in one of four ways.

The alarm is active if:

1. The value exceeds the trip point.
2. The value is below the trip point
3. The value is either above or below the trip points.
4. The value is between the trip points.

Customising the display

Envirodata's WebGen software allows you to enter your own web page title and table heading.

You can also specify the size of the page, either by entering a fixed width in pixels, or a percentage of the browser window width.

Requirements:

- A computer running Microsoft Windows version 2000 or XP or better.
- A WeatherMaster permanently connected via a serial port.
- Permanent power provided to the weather station.

Intranet access will require (in addition to above):

- The computer connected to your internal network (LAN) with a fixed (static) IP address.

Internet Access will require (in addition to above):

- The LAN needs to be connected to the internet.
- Port forwarding from external internet connection.
- Internet connection requires a static IP address, or a dynamic DNS.

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