



# Columbia Weather Systems

*Professional Weather Stations. Professional Weather Monitoring.*



*"The bottom line is that the conditions may not be exactly as forecast or reported elsewhere. There's no substitute for immediate, accurate, on-site weather data."*

[ColumbiaWeather.com](http://ColumbiaWeather.com)



## Innovative Weather Monitoring

Columbia Weather Systems offers professional weather stations providing immediate, on-site weather data for operational decisions in public safety and industries affected by weather conditions. Our long-term investment in product development and superior technical service is key to fulfilling demanding customer requirements and utilizing advancing technology.

### Range of Sensor Options

Our multi-sensor weather monitoring systems measure a variety of meteorological parameters. Select an all-in-one sensor array for easy installation or a modular system for individual sensor placement.

All of our sensor packages can be monitored using our proprietary Weather Master Software, touchscreen Weather Display, and/or internet-ready Weather MicroServer with common industrial protocols and browser interface.

If our standard systems do not meet your specifications, our weather monitoring systems can be custom-engineered to meet industry or project-specific requirements.

The various sensor options are described on the back page of this brochure.

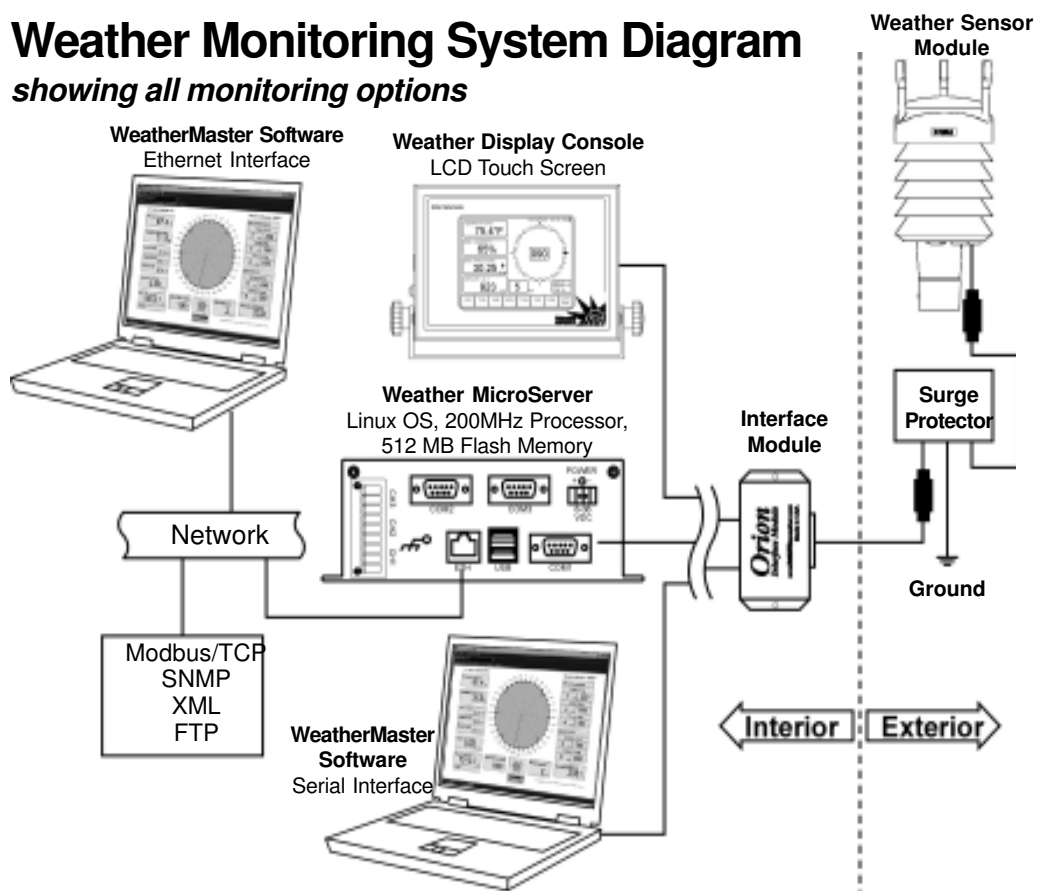
### Superior Technical Support

Columbia Weather Systems offers personal customer service and professional, free technical support.

*"During the development process of the new visitor center, our project manager selected Columbia Weather Systems in part for your company's excellent customer service. Our system is now up and running and accessible with its easy to use web interface and Weather Master Software. Thank you for providing such outstanding customer service for a superior product."*  
 ~ Amanda Whitty, Lassen Volcanic National Park

## Weather Monitoring System Diagram

showing all monitoring options



*"CWS provided the professional guidance and product to suit our needs. This type of weather technology will help keep us 'Tops in Ops' far into the future."*  
 ~David Schultz Airshows, LLC shown at left

## Weather MicroServer™

The Weather MicroServer converts sensor data into a format that can be monitored through the MicroServer's user interface, the Weather Display Console and/or Weather Master Software. The Weather MicroServer creates an "Internet-ready" weather monitoring system by automatically providing FTP output, XML web service, and Internet browser user interface.

SNMP, Modbus/OPC and RTU, DNP3 and BACnet industrial communication protocols are standard.



## Professional Weather Stations

The Weather MicroServer has datalogging capability. It connects to your network with an included Ethernet cable.

Two serial ports offer interface to both the Weather Display Console and additional peripheral devices or sensors.

The Weather MicroServer can provide real-time weather data to WeatherMaster Software over the network. This allows users to simultaneously monitor the weather using WeatherMaster on any network computer.

### MicroServer Optional Sensors:

Additional sensors can be connected directly to the MicroServer. This allows for an even wider variety of parameter measurements. These include visibility, solar radiation, photosynthetically active radiation (PAR), and temperature (panel, soil, water or ambient).



## Color Weather Display Console™

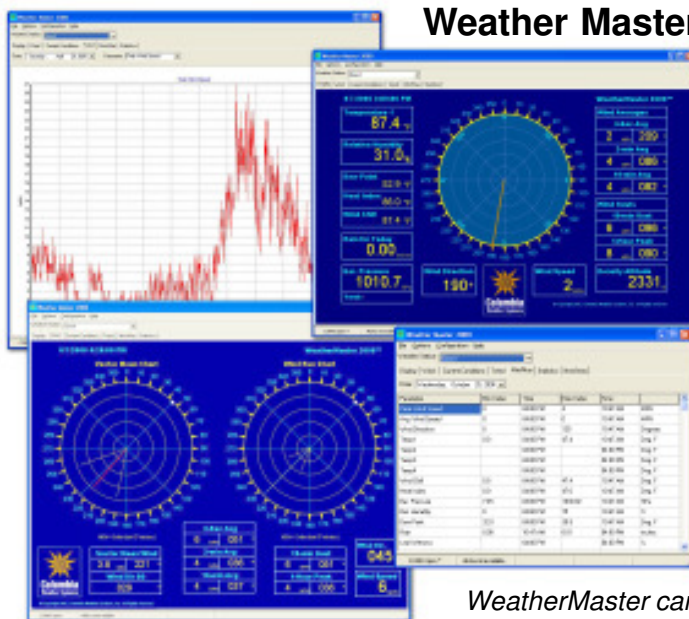
The Weather Display Console uses "intelligent" touch-screen technology. V its programmable microprocessor and abundant memory, the console disp weather information, performs complex computations, and stores data.

The Weather Display Console features a seven-inch, TFT color LCD panel with 800 x 480 pixels resolution. It can connect directly to the weather stati with a serial port or to the Weather MicroServer utilizing existing Ethernet.

The display console can be factory-programmed to suit specific market and industry requirements. It is available in three mounting options:  
 • Desktop/Wall-Mount • Panel Mount/Flush Mount • 19" Rack Mount



## Weather Master™ Software



This professional-grade software is designed to optimize the capabilities of CWS weather stations. Providing real-time computer weather monitoring, Weather Master offers:

- Display and automatic logging of all measured and calculated parameters
- Downwind vector wind and wind character-plotting screens
- Expandable SQL database
- On-the-fly graphing and trend display of all parameters
- Alarm notification via computer, email, pager or cell phone
- Multi-station monitoring and data acquisition
- Quick-North orientation
- Interface with CAMEO/ALOHA software for plume modeling and evacuation corridor predictions

*WeatherMaster can be customized to meet specific industry requirements.*

**Call or email for a quote • (503) 629-0887 • [info@columbiaweather.com](mailto:info@columbiaweather.com)**

## Columbia Weather Systems Sensor Options



### Orion

- Popular all-in-one technology with multiple parameter configurations
- Ultrasonic wind direction and speed
- Impact rain sensor
- Relative humidity, temperature and barometric pressure



### Pulsar

- All-in-one sensor with multiple parameter configurations
- Electronic Compass (all models)
- Doppler radar or tipping bucket rain
- Ultrasonic wind speed and direction
- Relative humidity, temperature and barometric pressure
- Solar radiation



### Magellan

- Rugged, metal all-in-one sensor
- Internal compass
- Sonic wind speed and direction
- Relative humidity, temperature and barometric pressure



### Magellan MX

- GPS + Compass - ideal for mobile
- All-in-one with multiple parameter configurations
- Ultrasonic wind direction and speed
- Relative humidity, temperature and barometric pressure
- Optical rain gauge for event-based precipitation measurement



### Capricorn FLX

- Modular system with multiple sensor options
- Reliable mechanical wind sensors
- Barometric pressure
- Up to four temperature sensors
- Relative humidity
- Rainfall
- Solar radiation

*"I have used your product extensively in the past when I worked for a Utility in Florida and am a big proponent of your technology. Every opportunity I get to use and place your product I will." ~Automation Consultant*

## Configurations

Weather stations come in fixed-mount, vehicle-mount, and portable configurations.

**Portable Weather Stations** include wireless transceivers, batteries, transportation case and tripod with telescoping mast.

**Vehicle-Mount Weather Stations** (shown right) include a detachable 9-ft telescoping sensor, mast and mounting hardware.



**Columbia Weather Systems, Inc.**  
5285 NE Elam Young Pkwy, #C100  
Hillsboro, OR 97124  
Toll-free 1 888 508-7375  
Phone (503) 629-0887  
Fax (503) 629-0898  
info@columbiaweather.com  
<https://ColumbiaWeather.com>



© 2016, Columbia Weather Systems, Inc. Specifications subject to change without notice.