



Key features of our weather stations:

- Compatible with our popular MicroDCP™ data acquisition device
- Measure most commercially available sensors
- Include multiple output message options (phone, cellular, voice-synthesized phone, satellite, radio)
- Proven reliable in harsh environments
- Long-term remote operational using batteries and solar panels
- Expandable to include more sensors or new sites
- Expandable to assume additional data analysis and reporting as needed

The MicroDCP™ directly connects to these sensors:

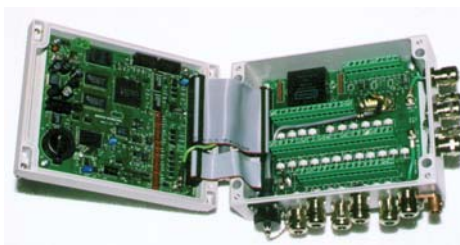
- Wind direction vanes
- Digital wind sensors
- Relative humidity
- Soil moisture
- Precipitation detector
- Evaporation sensors
- Cloud ceilometers
- Lightning detector
- Voltage sensors
- SDI-12 devices
- Cup & propeller anemometers
- Air, soil, and water temperature
- Analog and digital pressure sensors
- Tipping and weighing rain gauges
- Pyranometers and radiometers
- Water level
- Visibility and visual range sensors
- Ambient light & luminance
- Current sensors
- Platinum RTD and thermistors

Mesotech designs, manufactures, and installs industrial grade Automated Weather Stations for use in meteorological, hydrological, and environmental monitoring worldwide. Our weather stations are scalable and configurable to your specific requirements.

Mesotech's weather stations are known for their reliability, data measurement precision, durability, and ability to operate in extreme temperature conditions. Our systems are installed worldwide in locations ranging from the sub-zero conditions of the Arctic to the hot and arid conditions of the Sahara.

AWS Architecture

Mesotech's Automated Weather Stations (AWS) combine our powerful, yet versatile MicroDCP data acquisition unit with our leading edge Weather Advisor Pro™ software. With these core components, we can design for you the ideal remote, portable, or fixed weather station with automated reporting.



Our MicroDCP is a compact, affordable data acquisition and control device ideally suited for collecting meteorological and hydrological data. It is a versatile processor that can be used in systems ranging in size from portable stations to national networks. The MicroDCP has Plug & Measure™ capability for a large variety of sensors, which means you can set up your systems and start reporting within minutes. It is a complete package with sensor interfaces, data processing and logging, communications interfaces, rugged weatherproof housing, and software for display, analysis, and reporting.





Weather Advisor Pro is an easy-to-use program for weather observation and reporting. The software runs on Windows XP and 2000 computers and is designed to work with Mesotech's advanced sensors and data acquisition platforms. The program gathers data from one or more field stations and presents the data on-screen in a graphical format. Data can be logged to the computer's hard drive for analysis at a later

time. The Weather Advisor Pro automatically constructs standard reports, such as SYNOP and other local formats, which you can edit and approve before transmission, logging, or printing.

Wide Range of Applications

Mesotech's automated weather stations can operate effectively and efficiently in a virtually unlimited range of applications. Following are a few examples of our existing installations:

Commercial

- Weather conditions at ski resorts
- Early flood warning systems with sirens
- Weather forecasting at offshore facilities
- Power usage forecasting for power companies

- Monitoring roadway conditions
- SCADA systems at petroleum plants
- Agricultural conditions for a variety of crops
- Wind monitoring for wind turbine generator parks

Military/Government

- Vehicle mounted weather stations
- Airfield weather monitoring
- Tactical weather observing with GPS
- Synoptic stations with GMS satellite communications for cyclone warning system
- As components of our Airport Weather Advisor® installations

Research

- Agricultural research
- Astronomy research

