

Micro Weather Pro™

Featuring Plug & Measure™ Technology



- Compact, Lightweight, Reliable
- Quick installation
- Easy-to-use embedded software
- Versatile power options
- Data logging and real-time output
- Includes data logger, embedded software, sensors, and stand

Mesotech's *Micro Weather Pro™* (MWP) is a light-weight, portable weather station designed for a wide range of applications. The complete system weighs approximately 20 pounds.

It comes preconfigured with connectors for a standard set of sensors. It can be deployed by one person in less than 5 minutes without the need for tools. Once the sensors are connected, just turn on the power and data collection has started.

Data logging software is embedded in the *MWP*. It can be easily configured to your requirements. With the hand-held data display, you can see the readings immediately. The *MWP*'s non-volatile data memory can store from 53,000 to 315,000 data collections. Data can be off-loaded using an RS-232 or RS-422/485 connection to a Windows® PC.



Weather data can be collected at customized time intervals, and collected data can be fed into HAZMAT, ALOHA, Emergency Response, Homeland Security software or our *Weather Advisor™* graphical display program.

The *Micro Weather Pro™* can be used for either temporary data collection, or for long-term data collection. Either DC power, a rechargeable battery, or AC power can be used with both the tripod and fixed installation. Solar options make remote long-term use an option.

The *Micro Weather Pro™* is built to last in even the harshest conditions. It offers high performance in a very compact and lightweight design. The sensors and data acquisition unit can be mounted on our lightweight aluminum tripod, or on a fixed tower.

Mesotech's weather stations are known for their reliability, data measurement precision, durability, and their 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.



The Micro Weather Pro™ can be deployed using this lightweight 9' aluminum tripod, a 3m steel tripod, or a 30' tower. Anchoring stakes are available for tripod stability.

The *Micro Weather Pro™* comes with connectors for:

- Wind Speed & Direction
- Temperature – Air, Soil, Water
- Relative Humidity
- Barometer
- Tipping Bucket Rain Gauge
- Solar Radiation

Proven reliability – with installations around the world.

Analyzing and Reporting Weather Measurements

The *MWP* comes with a terminal interface based program that allows monitoring and collections of data. Data can be collected periodically, or real-time.



Weather Advisor™ wind dial and weather reporting screen.

Also included is the option to format the incoming data for use in first response, HAZMAT, or Homeland Security surface weather monitoring programs. Examples of these are CAMEO and ALOHA programs. For more advanced analysis and reporting, we offer our *Weather Advisor™* software program.

Weather Advisor™ Software

The *Weather Advisor™* software is an easy to use program for weather observation and reporting. It runs on Windows® PCs and is designed to work with Mesotech's *MWP*. A popular feature of *Weather Advisor™* is the one-button off-load of logged data.

Users find the *Weather Advisor™*'s graphical interface and network management extremely easy to use and interpret. On-line help provides step-by-step instructions for all functions. You will comfortably operate the program with minimum training. Data presentation, reporting and analysis can be accessed with a single mouse click. You don't need to select and resize windows to display the information.

The *Weather Advisor™* software is capable of connecting to an unlimited number of *MWP* data acquisition stations. It supports all the *MicroDCP™*'s communication options, including high-speed wire lines, fiber cable, telephone modems, and RF telemetry. The collected data and observation reports can be distributed to other computers on a local area network (LAN). The *Weather Advisor™* can be run while other programs are active on your computer.

Portability

The 9' aluminum tripod can be ordered with a high quality nylon canvas carrying bag. This along with the protective sensor case allows the *MWP* to be transported anywhere without fear of damage.

High Quality Sensors

The *MWP* package includes a standard set of high quality sensors with proven reliability. We offer some sensors at

more than one price/performance point. This allows the stations to be customized to meet your measurement requirements as well as your budget.

Available Sensors

Wind Speed/Direction:

- Ultrasonic Combination Kit
- Economical General Purpose Kit
- Professional Quality Kit
- High Performance Kit

Temperature & Relative Humidity:

- Economical Temp & RH probe
- Quality Temp & RH probe

Temperature (air, water, & soil):

- Economical Thermistor Probe - $\pm 1^\circ\text{C}$ accuracy

Barometric Pressure:

- Economical Pressure Sensor
- Precision Pressure Sensor
- Wide Temp Range Barometer

Precipitation:

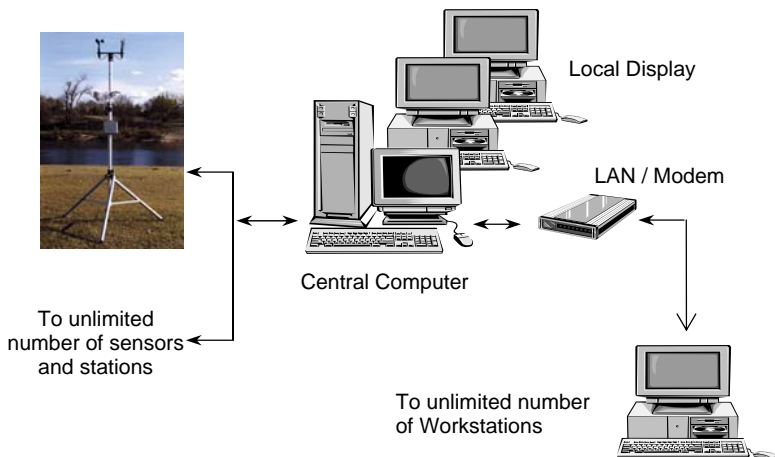
- Economical Tipping Bucket Rain Gauge
- Compact Tipping Bucket Rain Gauge
- Highly Accurate Tipping Bucket Rain Gauge

Solar Radiation:

- Economical Pyranometer
- Performance Pyranometer

Accessories

- Hand-held data display
- Communication cables
- AC Power Supply
- UPS Module & AC Power Cord
- AC Charger
- 5W Solar Panel/Charge Controller
- Sealed Rechargeable Battery
- Grounding Kit
- Lightning Rod Kit
- Tie-down Kit
- Carrying Case



Example system with multiple field stations, local area network, and a central server computer supporting a wide area network.

