

The RainWise Portable Weather Logger

Developed for measuring and recording in remote areas, the RainWise Portable Weather Logger (PORTLOG) operates as a completely self contained system. No power is required. The solar/battery supply will power the system continuously anywhere in the contiguous United States. The record rate is user selectable from once a minute to once an hour. The 128K non-volatile RAM will store over 6 months of data at a one hour record rate. Memory may be upgraded to up to 2MB. Windows™ based data retrieval software is provided for downloading stored data. The logger with all sensors, a battery charger, compass and a ten foot rugged tripod are all contained in a sturdy lockable shipping case. All the sensors are traceable to NIST. The PORTLOG can be completely set up and made operational by one person in less than 3 minutes.

The PORTLOG will measure and record:

- Wind Speed
- Wind Direction
- Temperature
- Relative Humidity
- Dew Point
- Barometric Pressure
- Solar Radiation
- Rainfall

The PORTLOG is guaranteed for five years.



SPECIFICATIONS

WIND SPEED

Range: 0 – 150 mph.
 0 – 67 meters per second.
 0 – 240 kilometers per hour.
 0 – 130 knots.
 Resolution: 0.1 unit.
 Threshold: 0.5 miles per hour
 Accuracy: ± 2% of full scale

WIND DIRECTION

Range: 0-360 with 1 degree resolution.
 Accuracy: ± 3°

RELATIVE HUMIDITY

Range: 0 – 100%
 Accuracy: ± 2% from –40° to +65° C.

TEMPERATURE

Range: -66° to +150° F.
 -54° to +65° C.
 Accuracy: ± .5° F
 ± .25° C.

DEW POINT

Range: -40° to +110° F.
 -40° to +43° C.
 Accuracy: ± 2° F.
 ± 1° C.

BAROMETER

Range: 10.2 inches Hg to 37.4 inches Hg.
 300 to 1100 millibars (hPa)
 Accuracy: ± 0.01 inches Hg.
 ± 0.5 millibars (hPa) @ 25°C*
 temperature compensated
 from –40° to +85° C.
 * after local offset adjustment

RAINFALL

Range: Unlimited tipping bucket
 with 8 inch dia. collector.
 Resolution: 0.01 inch.
 0.25 mm.
 0.1 mm special order
 Accuracy: ± 2% @ 1.0 inches per hour.

SOLAR RADIATION

Range: 0 to 2,000 watts per square meter
 Response: 400 to 1,200 nanometers
 Accuracy: Maximum ±5.0% - typical ±3.0%

