

PROFESSIONAL WEATHER STATIONS

Beautifully styled precision instruments clearly show all parameters at a glance. Contains the latest in advanced electronic technology while maintaining traditional styling in a superbly elegant solid mahogany and glass cabinet. Wind speed, gust speed, wind direction and barometric pressure are all displayed on attractive analog dials with pointers. Temperature, rainfall, and sunshine hours are shown on LCD displays.

Whether you have a professional requirement to monitor meteorological conditions or just take a general interest in the weather, we have an affordable Weather Station appropriate for you with four different models to choose from. All models can be placed on a shelf or wall mounted, work off either mains or 12 Volt DC power, and come complete with the necessary sensors. All sensors are very robust with a high degree of accuracy and supplied pre-wired with 25 meters of cable (additional cable is available by request). Installation is simple with clear instructions provided. A backup battery assures that temperature records are not lost in case of a power failure.



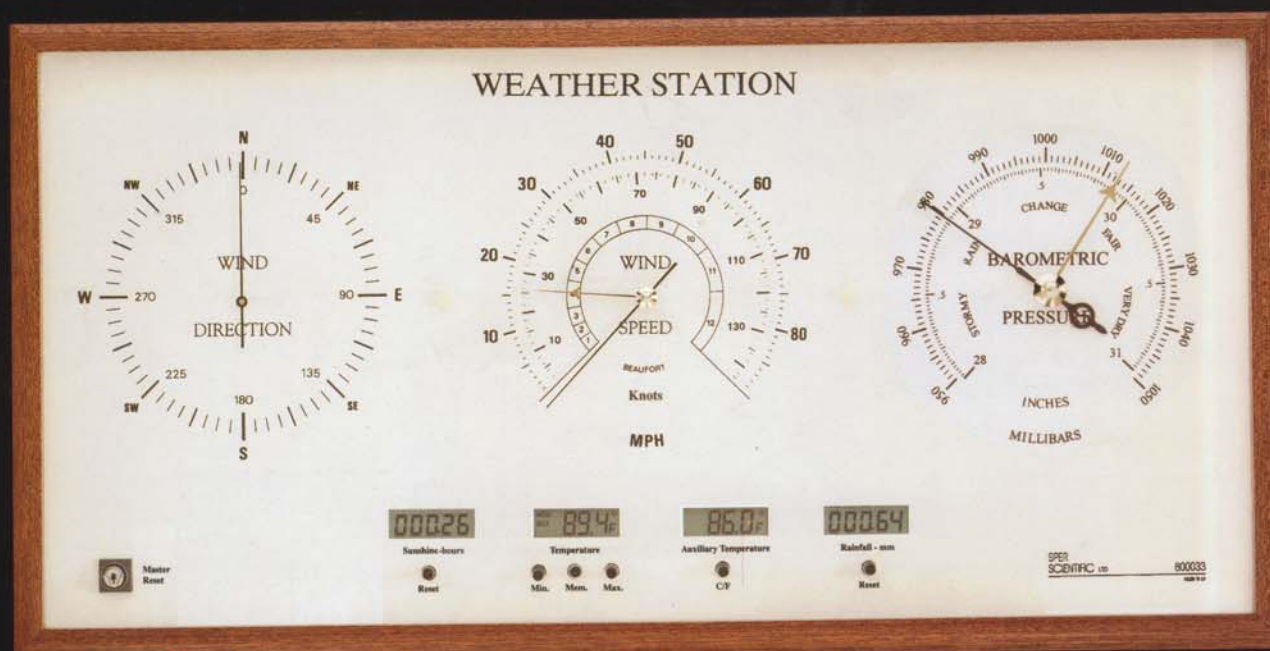
WEATHER STATION 800030

Continuously monitors wind speed, gust speed, wind direction, barometric pressure, external temperature (current, max. & min.). Display cabinet dimensions are 18" x 7" x 3" (457mm x 180 mm x 76mm).



WEATHER STATION 800031

Same as model 800030 with the addition of rainfall. Display cabinet dimensions are 18" x 7" x 3" (457mm x 180 mm x 76mm).



SCHOOL WEATHER STATION 800033

The School Weather Station's large size, clear displays, and elegant mahogany cabinet make it particularly suitable for sitting in a position of prominence within schools, institutions, and clubs. For students the analog dials are both more interesting and more instructive than purely digital weather stations. Display cabinet dimensions are 27" x 13.5" x 3" (686mm x 343mm x 76mm).

SCHOOL WEATHER STATION 800034

Optional White Board 800034 allows students to participate in interactive tracking. Display cabinet dimensions are 27" x 13.5" x 3" (686mm x 343mm x 76mm).

| YESTERDAY'S WEATHER | TODAY'S FORECAST |
|-----------------------|------------------|
| Wind Direction _____ | |
| Wind Speed Max. _____ | |
| Baro' Pressure _____ | |
| Temperature Min _____ | |
| Temperature Max _____ | |
| Rainfall Total _____ | |
| Sunshine Hours _____ | |

SPER SCIENTIFIC CO. 800034

COMING SOON

Met-Log, a sophisticated computerized data logging interface which records all weather data for up to 30 weeks and sends it to your computer. Using Met-Log's software package you will be able to view real time displays of all weather data as well as historical graphs right on your computer screen. You may print the data out for a hard copy record or export it to a spread sheet for further analysis. Met-Log can be connected to any of the Weather Stations or directly to the sensors.

This is a detailed image of a vintage-style weather station, likely a Speer Scientific model 800032, mounted on a wooden plaque. The station features several analog and digital gauges for various weather metrics:











- Sunshine-hours:** A digital display at the top left shows 000.26.
- Wind Direction:** A circular analog gauge with a compass rose showing cardinal and ordinal directions (N, NE, E, SE, S, SW, W, NW). The needle points towards the North.
- Wind Speed:** A circular analog gauge with two scales: the outer scale is in Miles Per Hour (MPH) from 0 to 80, and the inner scale is in Knots from 0 to 20. The needle points to approximately 25 MPH.
- Min-Temperature-Max:** A digital display showing 89.4°F.
- Rainfall-mm:** A digital display at the bottom left shows 000.64.
- Aux. Temperature:** A digital display showing 86.0°F.
- Barometric Pressure:** A circular analog gauge with two scales: the outer scale is in inches of mercury (INCHES) from 28 to 31, and the inner scale is in millibars (MILLIBARS) from 1030 to 1050. The needle points to approximately 30.5 inches.
- Weather Conditions:** A small gauge with a needle pointing to a scale from 1 to 5, labeled with weather conditions: RAIN, STORMY, and VERY DRY.

The station is mounted on a wooden plaque with a decorative border. The text "SPEER SCIENTIFIC, LTD." and "800032" are visible at the bottom.

A PARTIAL LIST OF SATISFIED CUSTOMERS:

Glaxo-Wellcome
BBC
Royal National Lifeboat Institute
British Meteorological Office
UK Ministry of Defence
Numerous Fire Fighters and Police Forces

RAF
NATO
Amoco Petroleum
British Telecom
Hoka Electronics
Seath Instruments

| | Sensor | Display | Range | Resolution | Accuracy |
|---------------------|--|---|---|---------------------------|--|
| Wind Direction | A precision conductive plastic potentiometer which combines exceptionally long life with accuracy.  |  | Threshold: 1.5 m/s 3 knots 3.5 mph 5 km/h | Better than 10 degrees | ± 10 degrees |
| Wind Speed | Hall effect magnetic switch.  |  | 0~90 mph 0~80 knots 1~12 Beaufort scale | Better than 1 knot | ± 5% or 3 knots whichever is greater |
| Barometric Pressure | Superior aneroid barometer.  |  | 950~1050 mB 28~31 in/Hg | 1 mB 0.02" | ± 2 mB |
| Temperature | Precision, n.t.c., thermistor.  |  | -40~50 °C -40~120 °F | 0.1 °C 0.1 °F | ± 0.5 °C ± 1.0 °F |
| Relative Humidity | Wet bulb humidity sensor. Humidity and dew point determined by chart provided.  | | 2-97% -40~50 °C -40~120 °F | 0.1 °C 0.1 °F | ± 0.5 °C ± 1.0 °F |
| Sunshine Hours | Anodized aluminum with a laboratory glass dome completely sealed against moisture and built to endure adverse conditions.  |  | .01-999.99 hrs | 36 seconds | ± 5% |
| Rainfall | IR optical system with no moving parts. Does not require emptying.  |  | 0.05 mm/sec 180 mm/h | 0.01mm | ± 5% |