



MAXIMUM
WIND AND WEATHER INSTRUMENTS

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"There is a sumptuous variety about the . . . weather that compels the stranger's admiration—and regret. The weather is always doing something there; always attending strictly to business; always getting up new designs and trying them on people to see how they will go . . ."

Mark Twain

Our fascination with weather is timeless: it affects our work, our play, our moods. Tracking and forecasting the weather serves not only the obvious functional purpose, but is an intriguing pastime.

Professional Quality

The Maximum line of weather instruments was developed out of a keen personal interest. Our wind instruments were the beginning backbone of the Maximum line. Developed initially with the professional meteorologist in mind, their packaging in jeweler's-quality brass cases

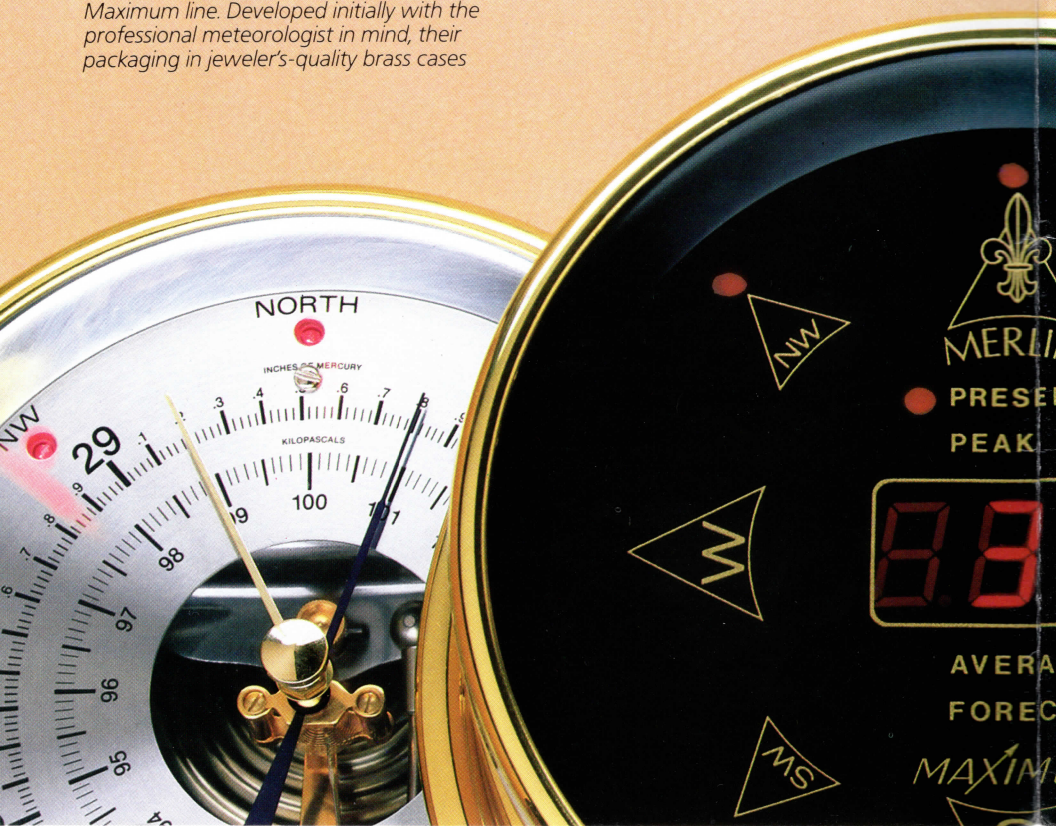
enhances their appearance while maintaining their accuracy and durability.

In fact, Maximum's anemometers have measured the wind at the top of Mt. Washington, acknowledged as the most punishing wind conditions in the world. After one test there, the report concluded "We believe that the Maximum, Inc., anemometer is a rugged and reliable instrument which should be capable of providing many years of accurate service under anything less than the very rugged conditions on top of Mt. Washington."

It is this durability that gives us such confidence in our 5-year limited warranty—not just on our brass instruments, but the full line of weather instrumentation.

A New Look

Our 6½" solid brass cases remain unchanged and unmatched. All our analog



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brass instruments are still available with our traditional spun aluminum dials. But we've added a new high-visibility dial, matte black with white numerals. This creates an exciting new look in our brass instruments. And two new digital anemometers bring a high-tech look, with your choice of gold or white printing on a black dial.

Unique Features

We are proud of the many features which differentiate our instruments. For example, our patented Gust Register, meticulously engineered and manufactured, is unique to our anemometers.

And now we are introducing Merlin — a wind computer that is an extraordinary combination of sophistication and simplicity. Merlin is an eight-function instrument that tracks the wind conditions, and

not only shows historical data, but gives you its short-term prognosis for the future. Yet despite its sophistication, it is exceptionally easy to use.

Customization

Our catalog can show only the most popular of the instruments we manufacture. We are also called upon frequently to customize these instruments to special applications. Many commercial users, for example, have special needs, and these are described on page 20.

Multiple sensors have proven a popular option, with one owner specifying 17 different thermometer sensors, from the greenhouse to the sauna. Two and three sensor instruments are common.

As a small company, we are able to accommodate these requests, so if you do not see the precise instrument you are looking for in this catalog, please call us to talk it over.





MERLIN

Dedicated computer for wind measurement.

Wind speed and direction have been the mainstay of many of Maximum's instruments over the years. Now, with the addition of custom-designed software and a microprocessor, we introduce Merlin: the wind instrument with a brain.

Existing wind conditions give you just "snapshot" information—a single point in time. Knowing the changes in these conditions gives you a much fuller picture. Is the wind veering from the southwest? Or increasing from the north?

You could watch a simple wind reader for hours for this information. Or you could let Merlin do it for you.

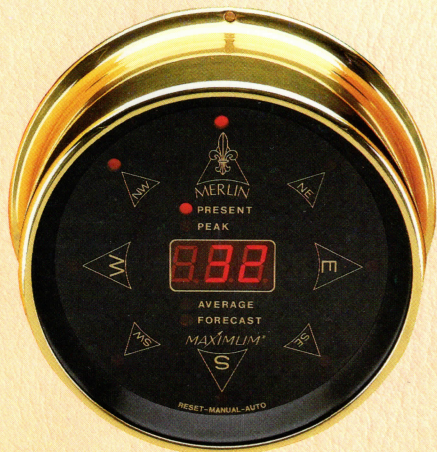
Merlin is an eight-function wind instrument which you control with a single, simple switch. Wind speed information is displayed in bright, half-inch high digits; wind direction is shown by eight red LED's. And both are given in each of four modes:

***Present** displays existing wind conditions.*

***Peak** shows the speed and direction of the highest gust since you last reset.*

***Average** displays the average wind speed and direction since the last reset. By referring to this data periodically and/or resetting from time to time, you can learn about wind characteristics and weather patterns for a particular location.*

***Forecast** is short-term—it compares the most recent 12-minute average to the previous 12-minute average, then displays the trend: "INC" for increase, "DEC" for decrease in windspeed—and the directional LED's will flash indicating the updated direction. Compare this information to the longer term information to see*



trends and changes in wind conditions.

Operation is simple: just switch to auto, and Merlin cycles through the four functions. When it reaches the one you want, switch back to manual to hold the display. The directional LED's are constant in "present" mode, and flash in the other three modes to remind you that you're seeing historical data.

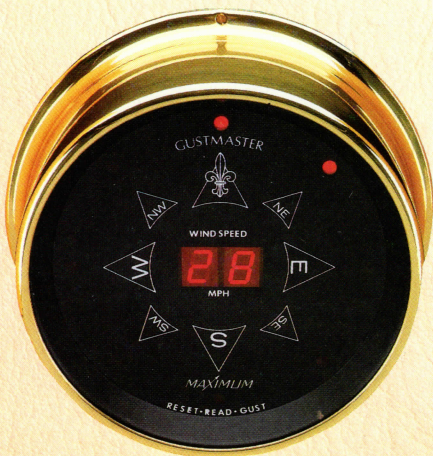
The reset is designed for maximum flexibility. For example, if you want to reset the peak gust without destroying other data you can do so. Or you can reset all functions at once. You select what pieces of information you want to erase or preserve.

Merlin is a serious meteorological tool for outdoor activities where wind conditions are important. The scientist, hobbyist, farmer and sportsman all benefit from its ability to analyze the wind. And its extreme simplicity of operation make it intriguing for the entire family to enjoy.

Memory is protected by a 15-hour back-up to handle most power outages. Merlin is housed in Maximum's handsome solid brass case, with our 5-year warranty. With white lettering on a black background, you can match it with many of the instruments in our line; gold printing on a black face adds a more elegant look. Comes complete with 60' of cable, UL approved adaptor, appropriate sensors and hardware. Household current or optional 12 VDC operation.

Merlin **\$550.00**

When ordering, specify white or gold graphics.



GUSTMASTER

Digital wind speed, direction and gusts

Our most popular instrument is now available in digital form: GustMaster™, a handsome and high-tech version of the classic Maestro. Red solid-state blinking LED's display wind direction. Red half-inch high numerals showing present wind speed and highest gust are highly visible day or night.

It is an attractive marriage between traditional solid brass and modern presentation, and is available with two dial options: elegant gold graphics on a black dial, or white silkscreened printing on matte black to match other Maximum black faces.

When switched to the "gust" position, GustMaster will read only higher wind speeds—an attractive feature when winds are increasing and one wants only to read the highs and not the lulls.

Because of the nature of digital circuitry, GustMaster is accurate to $\pm 2\%$ full scale and \pm one digit. Complete with 60' of cable, sensors, mounting hardware, and UL approved AC power pack for household operation; 12 VDC optionally available.

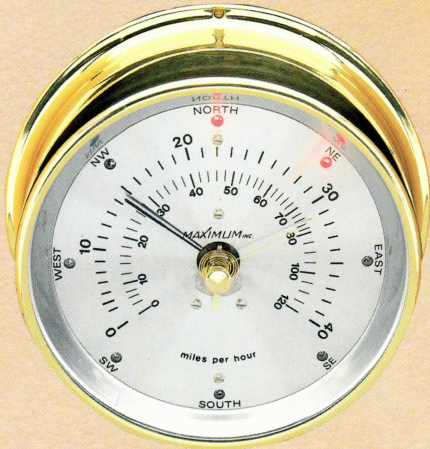
GustMaster **\$425.00**

When ordering, specify white or gold graphics.

MAESTRO

Standard and with expanded scale
Wind direction, speed and gusts

Maestro™ is available in two windspeed versions: the standard model displays both kilometers and miles-per-hour; the MK 2S lets you change from a 120 MPH to a 40 MPH scale with a simple flick of a switch for a more dynamic display of wind



speed. Both units feature our resettable Gust Register, which saves the highest reading. Wind direction is shown by eight red LED's—clearly visible even in direct sunlight.

Windspeed is self-powered by rooftop sensor, while LED's run off household current using the UL-approved power pack (12 VDC optionally available). 60' of 2-wire cable, 60' of 5-wire cable and mounting hardware are supplied. Available in spun aluminum dial, or high-visibility black face with white graphics.

Maestro \$350.00
Maestro MK 2S \$390.00

When ordering, specify black or aluminum dial.

RELIANT

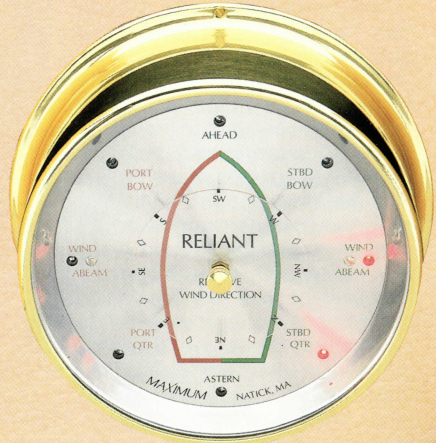
Relative and true wind for boats

When maneuvering a large boat, especially in close quarters, it is important to know the wind direction relative to the boat's intended heading. Reliant™'s three-color dial displays not only relative wind, but (when docked or at anchor) true wind direction is indicated when the compass bezel is oriented to ship's heading. An ideal companion to our Vigilant, which additionally provides wind speed and highest gust.

Reliant comes in our full-size 6-1/2" brass case, and comes complete with appropriate mounting hardware, sensor, and 60' of lead cable. 12 VDC is standard, although 110 VAC (household current) is optionally available. Available in aluminum dial only.

Reliant

\$240.00



RADIANT
Wind direction
with reminder

Radiant™ provides a reading of wind direction on an array of eight ruby-red solid-state LED's, and is the ideal companion to Vigilant. It is supplied with a UL-approved AC adaptor for use with household current,



and is optionally available for 12 VDC. The rooftop sensor is provided with 60' of cable and mounting hardware. Available with spun aluminum dial, or high-visibility black face with white printing.

Radiant

\$225.00

When ordering, specify black or aluminum dial.



VIGILANT

Standard and with expanded scale
Windspeed and gusts

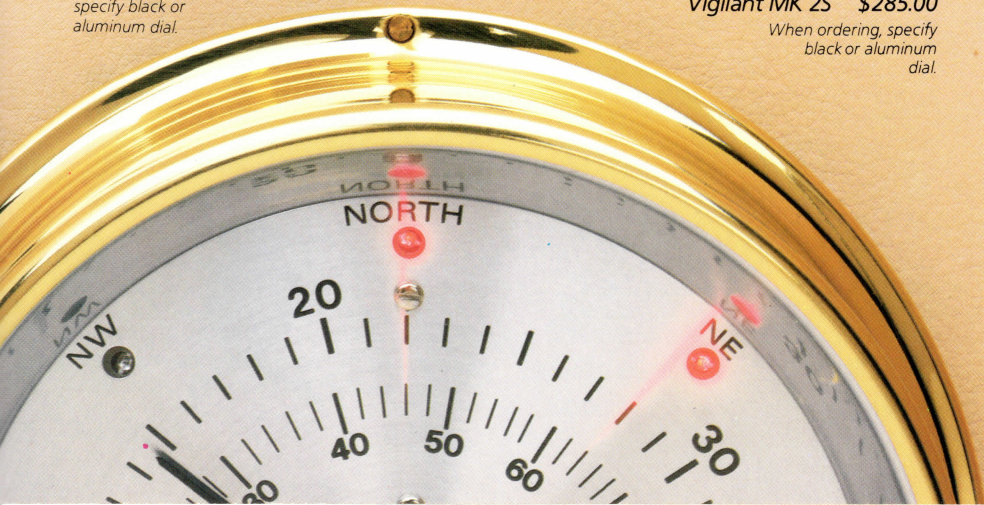
Our two Vigilant™ models deliver wind speed, whether on the standard (100 MPH) or expanded scale model (switch from 120 MPH to a top reading of 40 MPH). The Gust Register saves a record of the highest windspeed until reset by you. Self-powered by its own rooftop sensor, Vigilant needs no batteries or other power sources. 60' of cable and mounting hardware are supplied. Available with spun aluminum dial, or high-visibility black face with white printing.

Vigilant

\$240.00

Vigilant MK 2S \$285.00

When ordering, specify black or aluminum dial.



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WHYRLYGYG

Triple-duty anemometer

Two sets of windspeed cups—one meter.
Why? To make it the most flexible wind-speed instrument we've ever designed. Your one Whyrlygyg™ operates three different ways—as easily interchangeable as plugging in a set of earphones.

Mode #1 One generator comes on a mast with 60' of cable for permanent mast or rooftop installation. The meter rests on its spring legs and plugs and unplugs easily, making it ideal for boat or second home, where you may want to remove it frequently for security, or to take it with you for portable use as described in Mode #2.

Mode #2 Our portable generator can be plugged directly into the meter for the most portable of operation. Hold it vertically or horizontally against the wind. It's completely self powered, so you don't have to worry about batteries or power wires.

Mode #3 In this use you attach the portable generator to the handle, and use the 10' cable to attach to the meter. Set the meter up on its spring legs and you've got a convenient portable remote system. The meter unit lets you switch between 0–60 and 0–120 mph range. Comes complete with two generators, meter, 60-foot cable, 10-foot cable, handle and instructions. All portable elements fit in a convenient stuff sack.



Whyrlygyg

\$190.00

SIDEWINDER

Portable handheld anemometer

Sidewinder™ is the same as Whyrlygyg in the handheld version only (see Mode #2). Comes complete with storage/stuff sack and complete instructions.

Sidewinder \$125.00

SIROCCO

Wind speed

Like our popular Vigilant, Sirocco™ registers windspeed, but in a more economical package. Yet it is factory calibrated to $\pm 3\%$ over the full scale for excellent accuracy. Sirocco is a compact anemometer, handsomely mounted on a mahogany-stained solid maple block. Wall-mounted, or resting on any horizontal surface, its black dial has white markings for excellent



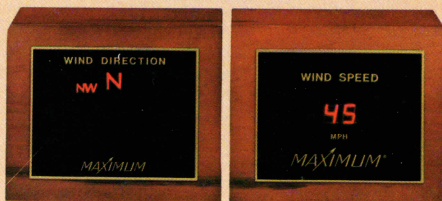
readability. It is totally self-powered, so installation is simple, requiring only two wires. Sirocco is covered by the same 5-year limited warranty that covers our brass instruments, and comes complete with mounting hardware, sensor, 60' of 2-wire cable, instructions and installation tips.

Sirocco \$150.00

ZEPHYR/ZEPHYR WD

Digital windspeed and wind direction

Our Zephyr™ wind indicators (also available individually) are an ideal combination to be displayed together. Handsomely housed in individual solid, mahogany-stained 5 $\frac{3}{4}$ " x 4 $\frac{3}{4}$ " x 2" maple blocks, both feature gold graphics on a black background. Windspeed is displayed digitally on big red LED's for easy readability day or night. Wind direction is indicated by unique simulated alpha-numeric display at 16 points of the compass. Mount them flush to the wall, or rest them on any horizontal surface. Each is delivered with 60' of



cable and instructions, and standard for household current. Zephyr windspeed is optionally available for 12 VDC. A great presentation gift.

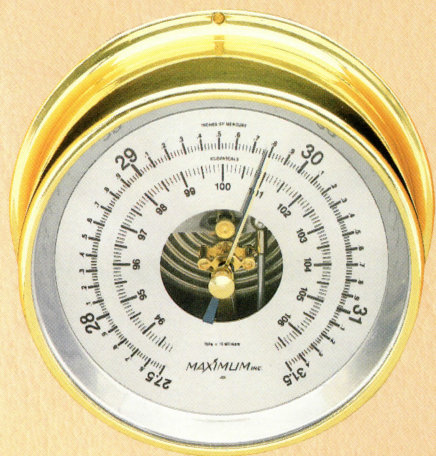
Zephyr Weatherstation \$350.00
Zephyr Windspeed \$185.00
Zephyr Wind Direction \$185.00

WINDMINDER

Second station windspeed readout

If you already have one of our windspeed instruments, you can have a second readout without installing another rooftop sensor. WindMinder™ features the same bright red LED display and maple mount as Zephyr, but attaches to the master system instead of the outside generator. Delivered complete with 60' of interconnecting cable and instructions. Standard for household current; 12 VDC optionally available.

WindMinder \$150.00



PROTEUS
Barometric pressure

Proteus™ is a classic temperature-compensated barometer. The center of the dial is cut out to reveal the polished French movement, the intricate heart of an accurate barometer. A resettable needle pointer is used to mark the starting level for changes in pressure which tell of pending weather. The dial shows inches of mercury and kilopascals. Available with spun aluminum dial, or high-visibility black face with white printing.

Proteus **\$240.00**
When ordering, specify black or aluminum dial.





PREDICTOR
Barometric pressure

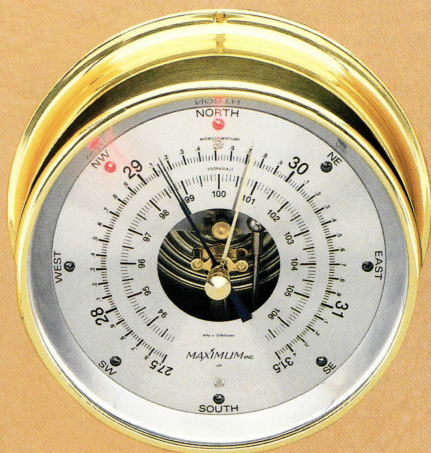
Little brother to our classic Proteus, Predictor™ is housed in the same, 6½" solid brass case. Although it uses a smaller, lighter aneroid movement with a 3 inches of mercury range, it is accurate and active, and is ideal for the casual weather observer. The dial features the traditional nomenclature (Rain/Change/Fair) and measurement in inches of mercury. Completely self-contained, it is available with spun aluminum dial, or high-visibility black face with white lettering.

Predictor **\$150.00**
When ordering, specify black or aluminum dial.

FORECASTER
Barometric pressure and wind direction

Forecaster™ combines the two most significant weather predictors in a single handsome unit. Changes in barometric pressure and wind direction foretell the severity and nature of coming weather. Eight red LED wind-direction indicators are clearly visible even in direct sunlight. Forecaster is powered by household current through our UL-approved AC adaptor, or optionally available for 12 VDC. Complete with roof-top sensor, cable and mounting hardware. Available with spun aluminum dial, or high-visibility black face with white printing.

Forecaster **\$380.00**
When ordering, specify black or aluminum dial.





MINI-MAX

Temperature and high/low record

Mini-Max™ is a remote-reading dual-scale (Fahrenheit and Celsius) electronic thermometer similar to our Criterion, but automatic high/low recording pointers. Similar to our Gust Register, these pointers are driven up or down the scale by the miniscule oscillations of the indicating needle, and record high and low temperatures until reset by you. Mini-Max is supplied with UL-approved AC adaptor for household current, outside sensor and 60' of cable. Available with spun aluminum dial, or high-visibility black face with white printing.

Mini-Max

\$325.00

When ordering, specify black or aluminum dial.

CRITERION

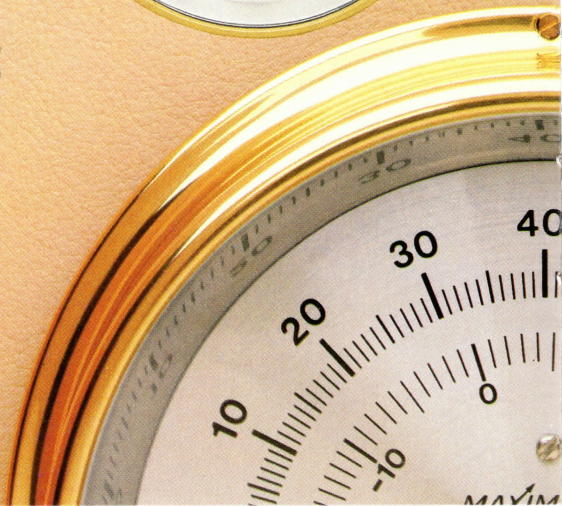
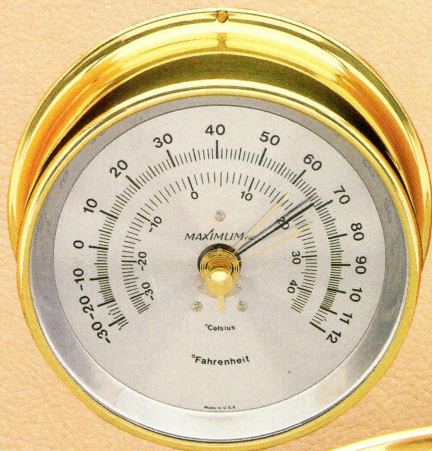
Electronic remote thermometer

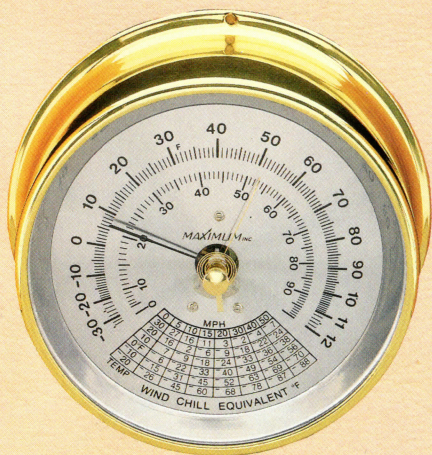
Criterion™ is a remote-reading dual-scale (Fahrenheit and Celsius) thermometer for inside reading of outside temperatures. The temperature-minder lets you dial in current temperature readings to note any rise or fall. Optional multiple sensors let you read temperatures for air, pool water, or other different locations just by flicking a switch. Standard operation on household current with UL-approved AC adaptor; Criterion can also be run off 12 VDC. Comes with outside sensor and 60' of cable. Available with spun aluminum dial, or high-visibility black face with white printing. The Saunameter™ version features a higher temperature scale (55° to 225° for sauna or hot tub use).

Criterion \$280.00

Saunameter \$315.00

When ordering Criterion, specify black or aluminum dial.





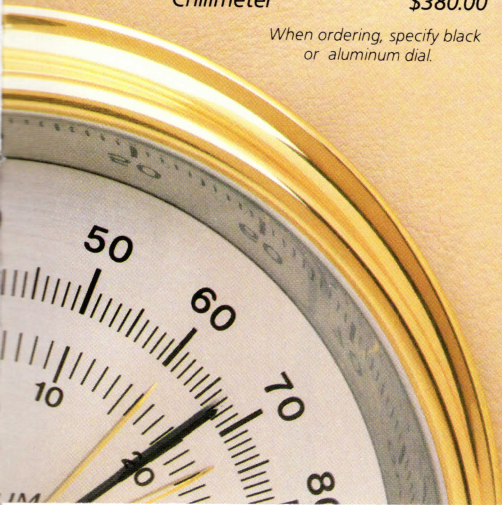
CHILLMETER

Windspeed, gusts, temperature and wind chill factor

With a flick of a switch, change from windspeed to outside temperature, then refer to the chart silkscreened on the spun aluminum dial to determine wind chill factor. Save the highest wind readings with Gust Register. Combined with Forecaster, Chillmeter™ forms a complete weather station. Windspeed is completely self-powered, while temperature runs off household current on our UL-approved AC adaptor. 12 VDC optionally available. Supplied with 60' of cable. Available with spun aluminum dial, or high-visibility black face with white printing.

Chillmeter **\$380.00**

When ordering, specify black or aluminum dial.



COMFORTMINDER

Inside temperature and humidity

Completely self-contained, ComfortMinder™ is a two-function instrument indicating two important elements of comfort: temperature and humidity.

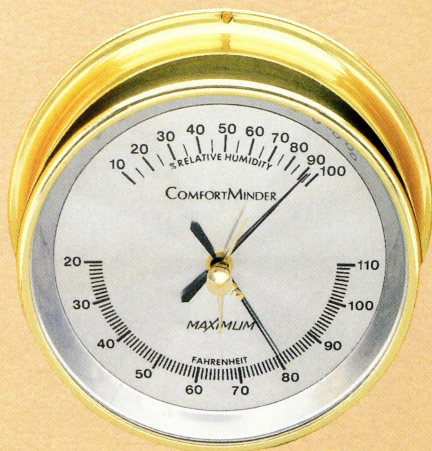
The humidity coil spring is made of non-corrosive chromium steel, and is affected little if any by temperature. Both the custom-fabricated temperature spring and humidity coil ride on custom spindles. Temperature ranges between 20° and 110°F; humidity between 10% and 100% RH. Unique center-mounted pointers with dual set reminders make it simple to dial up your own comfort points.

Suitable for use outside in a protected location, ComfortMinder is an attractive and functional monitor for greenhouse, computer room or home. Available with spun aluminum dial, or high visibility black face with white graphics.

ComfortMinder

\$130.00

When ordering, specify black or aluminum dial.





MERIDIAN

Quartz-movement clock

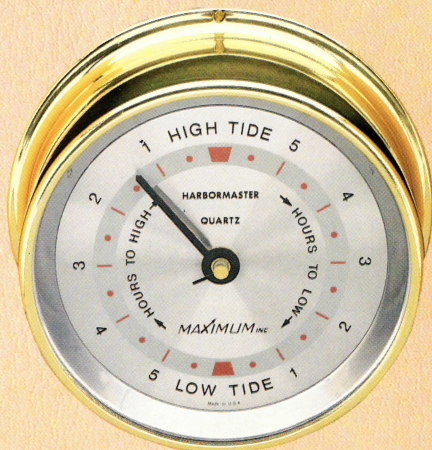
A quartz movement oscillating at over four-million times per second, is the heart of our exceptionally accurate clock. A single AA battery powers Meridian™ for two years. And our simple mounting system makes it easy to

remove for time changes, battery replacement or for security. Available with spun aluminum dial, or black face with white printing.

Meridian

\$180.00

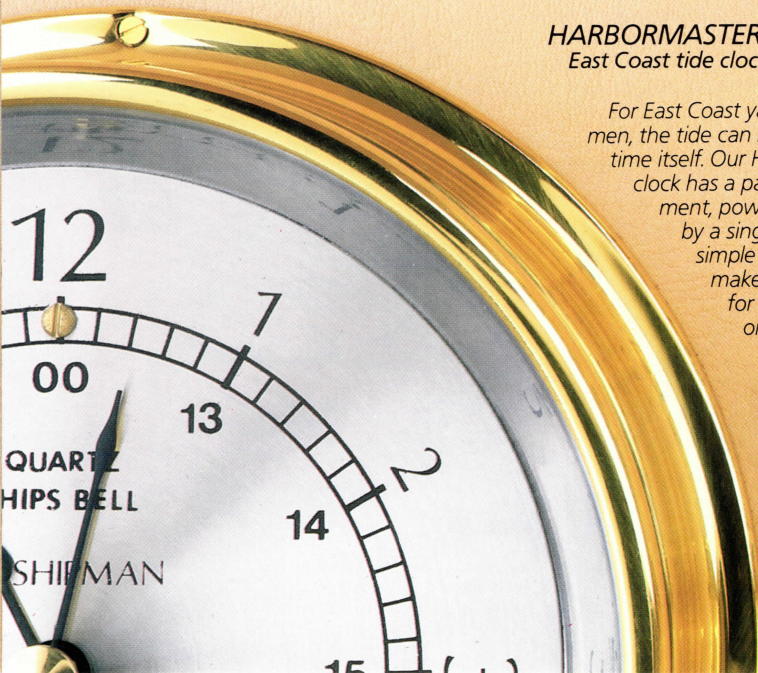
When ordering, specify black or aluminum dial.

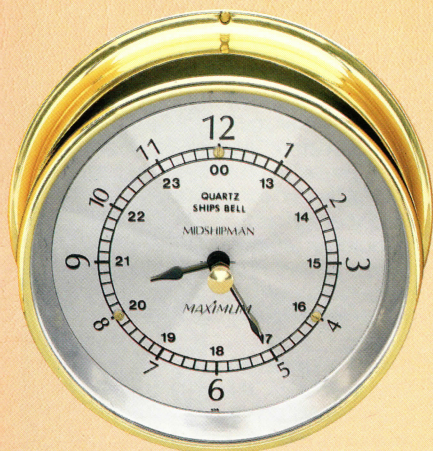


HARBORMASTER East Coast tide clock

For East Coast yachtsmen and fishermen, the tide can be as important as time itself. Our Harbormaster™ tide clock has a patented quartz movement, powered for over a year by a single C-cell battery. Our simple mounting system makes it easy to remove for battery replacement or security—even for corrections from port to port on a boat. Available in three-color aluminum dial only.

Harbormaster
\$155.00





MIDSHIPMAN
Ship's Bell Clock

Midshipman™ is a handsome quartz-driven 8-bell ship's clock with markings showing the traditional on-board watch periods. A simple wall mounting system

makes it simple to remove for security or for change of location from boat to office or home out of season. Bell may be turned off for silent operation as required. One year-battery operation. Complete and ready for easy installation. Available with spun aluminum dial, or high-visibility black dial with white graphics.

Midshipman \$245.00

When ordering, specify black or aluminum dial.

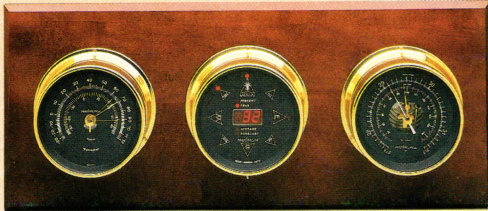


WEATHER STATIONS

There are certain combinations of Maximum's brass-encased instruments which work together to tell a special weather story. We have combined a number of these instruments to create weather stations to fit varying needs, and priced them to save you money over buying the items separately.

Our weather stations are mounted on panels of uniform-grain solid maple, with a rich, high-gloss mahogany finish. They are key-locked and pre-drilled for either horizontal or vertical installations. All weather stations are available with spun aluminum dial for the more traditional look, or in our new high visibility black face with white silkscreening.

Weather stations make particularly good commemorative or award presentations, for which we offer polished solid brass engraved plates.



SENTINEL

The high-tech version of our ever-popular Montauk: our new **Merlin** for digital windspeed and direction with its ability to remember the wind. **Mini-Max** for outdoor temperature plus recorded highs and lows. **Proteus** for barometric pressure. Available only in high visibility dial with white graphics.

Sentinel™ \$1,140.00

BRASS PLAQUES FOR PERSONALIZATION

Mounted Maximum instruments are particularly handsome for commemoration or award presentations. We offer polished solid brass plates in two sizes with double-line Century engraving. Personalization is limited to four lines of 30 characters each (including spacing). Not available for one-instrument panels. Cost includes engraving.

For mantle mount \$18
For panels \$18

MONTAUK MK 2S

Traditionally our most popular weather station for both the "amateur" and the experts, Montauk covers the total weather picture.

Maestro (or **Maestro MK 2S**) for wind speed, direction and gusts. **Mini-Max** for outdoor temperature plus recorded highs and lows. **Proteus** for barometric pressure. Available with spun aluminum dial, or high-visibility black face with white printing.

Montauk™ \$940.00
Montauk MK 2S \$980.00

When ordering, specify black or aluminum dial.



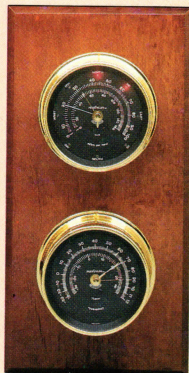
IN APPRECIATION FOR
25 YEARS OF SERVICE

PROFESSIONAL

Our five-instrument panel for the ultimate in weather watching. **Maestro** (or Maestro MK 2S) for wind speed, direction and gusts. **Proteus** for barometric pressure. **Mini-Max** for outdoor temperature plus high and low readings. **Comfortminder** for indoor temperature and relative humidity. **Meridian** for time. Available with spun aluminum dial, or high-visibility black face with white printing.

Professional™ \$1,280.00
Professional MK 2S \$1,320.00

When ordering, specify black or aluminum dial.



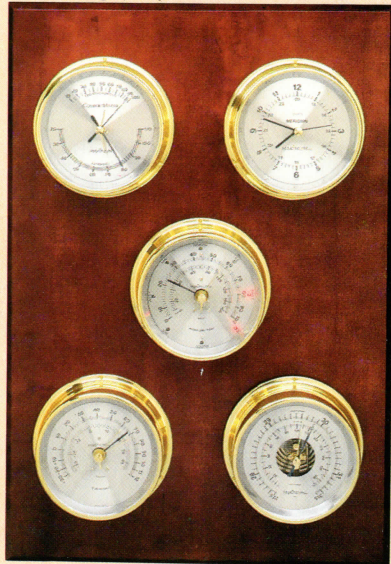
CATALINA

Maestro (or Maestro MK 2S) for wind speed, direction and gusts. **Mini-Max** for temperature plus recorded highs and

lows. Available with spun aluminum dial, or high-visibility black face with white printing.

Catalina™ \$700.00
Catalina MK 2S \$740.00

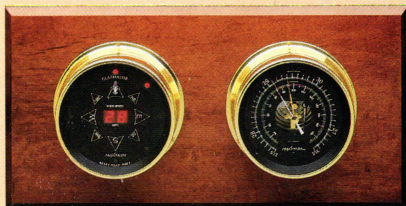
When ordering, specify black or aluminum dial.



CORINTHIAN

Our popular Hatteras station now with digital wind speed. **Gustmaster** for digital wind speed, direction and gusts. **Proteus** for barometric pressure. Available in matching high-visibility dial with white graphics.

Corinthian™ \$690.00



CUSTOMIZED STATIONS

You may not see the combination of instruments that is right for you. If not, we invite you to customize your own station, by adding or subtracting a particular instrument's retail price to the listed station's price. If you have any question, please feel free to give us a call for a quote.

EXECUTIVE

Completely self-contained with no installation wires, Executive makes an ideal corporate presentation gift. **Predictor** for



barometric pressure. **Comfortminder** for inside temperature and relative humidity. **Meridian** for time. Available with spun aluminum dial, or high-visibility black face with white printing.

Executive™ \$500.00
When ordering, specify black or aluminum dial.

HATTERAS (not shown)

Maestro (or **Maestro MK 2S**) for wind speed, direction and gusts. **Proteus** for barometric pressure. Available with spun aluminum dial, or high-visibility black face with white printing.

Hatteras™ \$620.00
Hatteras MK 2S \$660.00

When ordering, specify black or aluminum dial.

OBSERVER (not shown)

Maestro (or **Maestro MK 2S**) for wind speed, direction and gusts. **Proteus** for barometric pressure. **Mini-Max** for outdoor temperature plus high and low readings. **Comfortminder** for inside temperature and relative humidity. Available with spun aluminum dial, or high-visibility black face with white printing.

Observer™ \$1,080.00
Observer MK 2S \$1,120.00

When ordering, specify black or aluminum dial.



Because they require no wiring, Predictor (barometer), Meridian (clock) and Comfortminder (temperature humidity) are very popular for mantle-piece display. Their suitability for gift-giving or award is enhanced by our attractive mantle-mount, which arrives specially boxed.

Predictor & mantle-mount \$180
 Meridian & mantle-mount \$210
 Comfortminder & mantle-mount \$165

When ordering, specify black or aluminum dial.



For those who wish to assemble their own weather stations, Maximum offers the panels alone, as well as a series of plaques for individual instruments.

5-instrument (18" x 26") P1826 \$100
 4-instrument (18" x 20") P1820 \$ 85
 3-instrument (11" x 26") P1126 \$ 60
 2-instrument (10" x 20") P1020 \$ 50
 1-instrument (8" square) P88 \$ 18
 1-instrument (8" round) C88 \$18
 Mantle-mount MM1 \$40



MAXIMUM SCIENTIFIC INSTRUMENTS

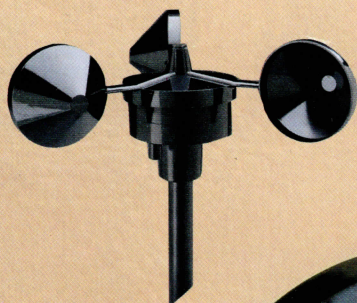
With more than 50,000 wind sensors in the field, Maximum is a major supplier to industry: researchers, wind farms, public utilities, marine OEM's and many more.

In addition, we have customized installations of nearly all our instruments, for homeowners as well as industry. We have built instruments with up to 17 different sensor locations, as well as chart recorder interfacing, long runs for summit-based readings, and special custom sensors.

With the many varying needs of different users, space prohibits our showing the variety of customized instruments we have built over the years. If your needs go beyond the standard products shown here, we invite you to call or contact us directly regarding your own special requirements.

WIND GENERATOR

Research in the most rigorous wind conditions in the world has used our wind generators—Rocky Mountain National Park and along the Continental Divide, Cannon Mountain in New Hampshire, and of course Mt. Washington. It is on these installations that Maximum anemometers have recorded some of the highest wind speeds reported on the surface of the earth—some in excess of 200 MPH.



Most commercial installations don't need to withstand such punishing conditions, rather, accuracy is the issue. Hence our anemometers are used extensively in the alternative energy field for monitoring wind farms, and for testing new sites. Inquire for volume OEM prices.

WIND SPEED ALARM

Analog and digital

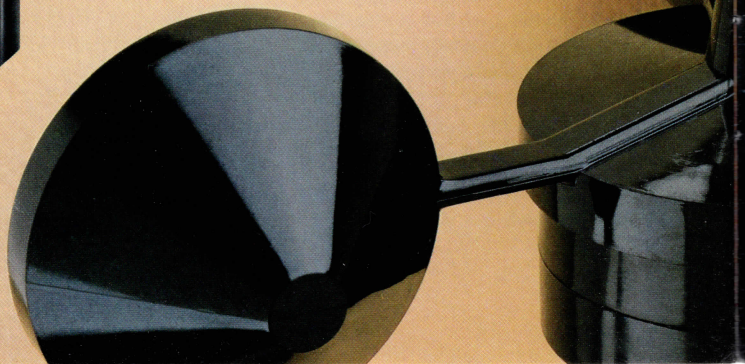
Maximum offers both analog and digital wind speed alarms which trigger an audible signal when wind speed exceeds the limit set by the user. These alarms meet OSHA requirements, and are extremely cost effective. We have supplied alarms for use at construction sites where cranes are in use, for water conservation and irrigation systems, for outdoor advertising, tramway and gondola operation at ski areas. Both models are shipped complete with 60' of cable, mounting hardware and sensor.

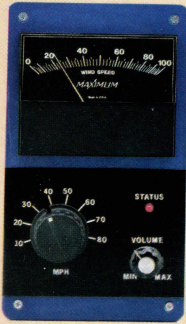
Standard specifications are listed below, but we also offer a variety of options as follows:

Relay output: to control custom remote warning systems.

Latching control circuit: once alarm is activated, it is unaffected by subsequent wind changes, and must be turned off manually.

Time delay control circuit: alarm stays on for a set period, or is activated only after the wind speed has been at the set point or above for a selected period of time.





Analog Wind Speed Alarm \$280.00
 Digital Wind Speed Alarm \$380.00

Custom voltages and instrument casings:
 please inquire for your special needs.

Analog Specifications

Meter accuracy $\pm 3\%$ FS.
 Setpoint accuracy ± 2 MPH or $\pm 3\%$,
 whichever is
 greater
 Meter range 0 to 100 MPH
 Set point range 10 to 80 MPH
 Power requirement 110-117 VAC 60 Hz
 at less than
 1 ampere
 Piezo Buzzer Alarm 90 dB SPL
 Dimension $7\frac{7}{16}'' \times 4\frac{5}{16}'' \times 2\frac{5}{16}''$

Digital Specifications:

Meter accuracy $\pm 2\%$ of input and
 ± 1 MPH
 Setpoint accuracy ± 2 MPH or $\pm 3\%$,
 whichever is
 greater

Meter range 0 to 99 MPH
 Set point range 0 to 99 MPH
 Power requirement 110-117 VAC 60 Hz
 at less than
 1 ampere
 Piezo Buzzer Alarm 90 dB SPL
 Dimension $7\frac{7}{16}'' \times 4\frac{5}{16}'' \times 2\frac{5}{16}''$

SYSTEM COMPONENTS

Each Maximum instrument is supplied as a complete system which includes the components specified in its description. For multiple sensors or replacements, these components are available separately at the prices shown.

Wind speed:
 Generator (specify instrument) \$60
 60' 2-wire cable 12
 10" black anodized mast 3
 Wind direction:
 Distributor and vane
 (specify instrument) 75
 60' 5-wire cable 30
 Black anodized formed mast 4
 Temperature:
 Air sensor with 60' 2-wire cable 50
 Water sensor with 60' 2-wire cable 50
 Built-in SPDT switch 25
 60' shielded cable 20

TECHNICAL SPECIFICATIONS

Brass Indicators

6.5" O.D., 2 $\frac{3}{4}$ " Depth, solid brass case polished and lacquered or chrome plated (optional, extra). Dials 4.75" O.D. spun aluminum with black numerals, or matte black with white or gold numerals. Full 250° scale length, expanded for readability in areas of most usage; pivot and jewel meter movements, 300 microamps full scale, 450 ohms resistance with 180°/second response rate. Wind speed Gust Register response rate 75% V v/5 seconds. Reset knob clutch torque less than one ft. lb., spring loaded.

Distributor

Wind Vane has swept diameter of 10 inches. Housings and bearings identical to the type 41 generator (above). Five solid brass 4-40 stud terminals for ribbon (antenna rotor type) cable. A single permanent magnet actuates 8 hermetically sealed magnetic reed switches for ultra long life. Diode logic system permits five-wire operation.

Generators

Type 41 cup type generator has 7 $\frac{1}{2}$ " swept diameter, weighs 4 oz. It generates a sine wave AC voltage proportional to wind speed. At 102 mph, it spins at 1800 rpm putting out 3.67 volts at 60 Hz. The output is linearly proportional down to 8 mph. Its black Lexan housing and rotor are impervious to shock, vibration, sunlight and ice. All generators are calibrated to a master to be interchangeable. Thrust and journal bearings are both O-ring mounted, self-aligning to Beryllium copper shaft, impervious to moisture corrosion, salt air. Bearings are self-lubricating teflon specially formulated for dimensional stability under extreme conditions.

Air and Water Sensors

Air: Overall height, 3"; diameter of Housing, 2". Probe is nickel plated brass, $\frac{1}{4}$ " O.D., 1" long. Sensor element is a precision thermistor, a solid state device which changes its resistance inversely proportional with temperature from 150,000 ohms at the low end to 1,500 ohms at the high end. Interchangeability of thermistors is $\pm 0.2^\circ\text{C}$; time constant, 10 sec.

Water: Thermistor specifications are identical to Air Sensor above. Housing is a solid copper rod, bored to accept the thermistor in its very end and potted wiring. 3" length, $\frac{3}{8}$ " O.D.

Additional Information

Information on our sensors and their use under extreme conditions is available upon request.

Current Requirements

Thermometers and most wind-direction instruments are supplied standard with 110 VAC (household current) UL-approved AC adaptors. All except Mini-Max are optionally available for 12 VDC (boat use). Reliant is standard with 12 VDC; 110 VAC optionally available. European voltages are available on select instruments upon request.

All instruments are optionally available in chrome case at \$25 extra.

If you already have Maximum instruments with spun aluminum dials, we can change these to the new high-visibility faces. Call us for more information.

Details, specifications and prices are subject to change without notice.

Maximum is a registered trademark of Maximum, Inc.

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FIVE-YEAR LIMITED WARRANTY

Maximum instruments are supported by many years of experience in building weather instrumentation to the most exacting standards of construction. Our 6 1/2" cases are solid brass, with handsome spun aluminum faces for exceptionally easy reading. Instrument sensors and details are consistently the highest quality so that their accuracy can meet even the needs of commercial users. The Maximum anemometer/generator, for example, continues to be used in the extreme conditions atop Mt. Washington, and is traceable to the National Bureau of Standards. This allows us to offer the following warranty:

Maximum, Inc. of 42 South Avenue, Natick, Massachusetts, warrants its weather instruments to be free from defects in material and workmanship for five years from date of original purchase. This warranty does not cover damages due to improper installation or use, lightning, or damage attributable to unauthorized service. Nor does this warranty apply if any seal on any instrument is broken. Any defective weather instrument which is returned to Maximum during the warranty period will be repaired or replaced, at the option of Maximum, free of charge.

The foregoing is in lieu of all other

express warranties.

Procedure—The instrument must be returned, postage prepaid, to Maximum and should be accompanied by a return address and a brief statement of the malfunction. Services under this warranty will be available at any time of the year and will be completed within three weeks after the instrument is returned. The return of the warranty card is not a condition of warranty coverage, but may serve as evidence of your date of purchase.

Limits of Liability—The foregoing shall constitute the sole and exclusive remedy of any owner of a Maximum weather instrument for breach of warranty including the implied warranties of merchantability and fitness. Implied warranties with respect to Maximum weather instruments, which shall exist only if imposed by law, shall be limited in duration to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. IN NO EVENT SHALL MAXIMUM, INC., BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE INSTALLATION OR USE OF ANY INSTRUMENT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations or exclusion may not apply to you. Maximum does not make or assume or authorize any other person to make or assume for it any other warranty or liability in connection with its weather instruments. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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Bulk Rate
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