



**EVERY OCEAN. EVERY CONTINENT. EVERYDAY.**

The R. M. Young Company has developed and built rugged weather instrumentation for over 50 years. Our ocean of experience results in proven, reliable designs engineered for the harshest environments.

**MARINE PRODUCTS**

# Precision Meteorological Instruments



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Front Cover Photo: Wind monitor aboard NOAA ship, Fairweather, courtesy of National Oceanic and Atmospheric Administration/Department of Commerce.  
AXYS WatchKeeper buoy deployment, Montevideo, Uruguay. Courtesy of AXYS Technologies. [www.axys.com](http://www.axys.com)  
Page 2 Photos: Wind monitor aboard NOAA 46084 weather buoy courtesy of National Oceanic and Atmospheric Administration/Department of Commerce. Chinese Ice Breaker, Yue Long, photo courtesy of Qingdao Junyang Envirotech Ltd, Qingdao, China  
Back Cover Lighthouse Photo: "Threatening Seas" photographed by Gary Martin. [www.coastalbeacons.com](http://www.coastalbeacons.com).  
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## METEOROLOGICAL INSTRUMENTS

### RELIABILITY FOR THE SEAS AHEAD

We know the importance of installing the the most reliable weather sensors for the harshest marine environments. Salt. Frozen precipitation. Constant motion. Extreme cold. Extreme heat. For every latitude.



**WIND MONITOR-MA**  
MODEL 05106

Marine wind sensor. Extremely rugged and proven sensor for use in harsh marine environments. Features very low power consumption, stainless steel bearings and easy serviceability.

• Wind Speed Measurement Range: 0 – 100 m/s



**WIND MONITOR-HD**  
MODEL 05108

Heavy-duty wind sensor featuring oversized ceramic bearings, oversized propeller shaft and a high pitch propeller for extended service. Also features very low power consumption and easy serviceability.

• Wind Speed Measurement Range: 0 – 100 m/s



**INTRINSICALLY SAFE WIND MONITOR**  
MODEL 05501LM

Wind sensor for hazardous environments. The Wind Monitor-IS is designed for Class 1, Division 1, Group A, B, C, D hazardous areas. Tested in accordance with Safety Standard UL 913. Must be properly installed with approved intrinsically safe barrier.

• Wind Speed Measurement Range: 0 – 100 m/s



**WIND MONITOR-HD ALPINE**  
MODEL 05108-45

Enhanced features of the Wind Monitor-HD plus a durable ice-resistant coating for cold conditions. Also features very low power consumption and easy serviceability.

• Wind Speed Measurement Range: 0 – 100 m/s



**ULTRASONIC ANEMOMETER**  
MODEL 86106

Sensitive, non-mechanical wind measurement with analog and serial output (NMEA, SDI-12, ASCII). Heated option available.

• Wind Speed Measurement Range: 0 – 75 m/s



**ResponseONE™  
ULTRASONIC ANEMOMETER**  
MODEL 91000

Compact design for accurate wind speed and direction measurement up to 70 m/s. Convenient digital output formats include NMEA, SDI-12 and ASCII.



**SENTRY™ VISIBILITY SENSOR**  
MODEL 73000

Reliable measurement of atmospheric visibility by determining the amount of light scattered by particles in the air (smoke, dust, haze, fog, rain, & snow). All-weather performance in marine environments is achieved with a proven IP66 design.

Optional external hood heaters are available for additional protection in extreme environments. All power and signal lines to the Sentry™ are protected with surge and EMI filtering to ensure uninterrupted service for the life of the sensor.



**SENTRY™ EX VISIBILITY SENSOR**  
MODEL 73200

Specialized sensor for atmospheric visibility measurement in hazardous environments including petrochemical production sites, refining facilities and marine transportation terminals.

The ATEX Zone 1 rated housing and offshore marine-grade sheathed cables ensure all-weather IP66 performance to monitor changes in visibility due to rain, snow, fog, smoke, and dust.



**COMPASS/SERIAL INTERFACE**  
MODEL 32500

Provides compass function to enable true wind direction. Accepts 4 auxiliary analog inputs from other sensors such as temperature, humidity and barometric pressure sensors.

The Model 32400 Serial Interface provides for integration with other sensors without the compass circuitry. Provides digital RS232 / RS485 output in NMEA, ASCII or RMYT formats.



**MARINE WIND TRACKER**  
MODEL 06206

Developed for shipboard use with a LED-illuminated panel for easy visualization of wind direction relative to the ship's heading. Standard serial NMEA and voltage outputs.



**WIND TRACKER**  
MODEL 06201

Display for wind speed, maximum wind speed and wind direction. Alarmed and voltage outputs are standard.



**METEOROLOGICAL TRANSLATOR**  
MODEL 26800

Highly versatile programmable data display, system interface and data recorder. Includes RMYComm software for system programming from a PC. Accepts up to 16 analog inputs and includes digital I/O, 4 analog outputs and 4 switching outputs.



**BAROMETRIC PRESSURE SENSOR**  
MODEL 61302

High accuracy atmospheric pressure measurement with low power consumption. Available w/voltage, current or serial output.

**PRESSURE PORT**  
MODEL 61002

Minimizes wind-induced barometric pressure measurement effects.

**PROTECTIVE ENCLOSURE**  
MODEL 61360

Weather resistant protective enclosure to house the Model 61302 Barometric Pressure Sensor.



**RELATIVE HUMIDITY AND TEMPERATURE PROBE**  
MODEL 41382

Combination sensor for reliable and accurate measurement of temperature and relative humidity.

**MULTI-PLATE RADIATION SHIELD**  
MODEL 41003

Naturally ventilated shield that minimizes effects of solar radiation and precipitation on temperature and humidity measurements. Accepts probes from Young and other manufacturers.



**PRECIPITATION GAUGE**  
MODEL 50202

Designed with no moving parts. Ideal for moving platforms like buoys and ships.

**YOUNG**