

weather



Model 92000

Response **ONE**™ Weather Transmitter

The YOUNG *ResponseONE™* Weather Transmitter measures four key meteorological variables with one compact instrument. It is ideal for many weather monitoring applications requiring accurate, and reliable measurements. Ultrasonic wind speed and direction, atmospheric pressure, humidity and temperature sensors are carefully integrated into an enclosure optimized for durability, airflow and mitigation of solar radiation effects. An integrated compass helps enable mobile applications (Model 92500). A variety of useful serial output formats are provided including SDI-12, NMEA, and ASCII text. Output may be continuously provided or, to conserve power, polled output may be used. RS-232 or RS-485 serial format options enable direct integration with YOUNG displays, marine NMEA systems, data loggers or other compatible serial devices. An easy-to-use Windows setup program is provided with each sensor. The program allows the user to customize the device settings such as sampling rates and communication parameters.

The *ResponseONE™* features durable, corrosion-resistant construction and installs on readily available 1 inch (IPS) pipe. Wiring connections are made in a convenient weather-proof junction box. Special connectors and cables are not required.



Specifications

Wind Speed	Range: 0 – 70 m/s (156 mph) Resolution: 0.01 m/s Accuracy: $\pm 2\%$ or 0.3 m/s (0 – 30 m/s) $\pm 3\%$ (30 – 70 m/s)
Wind Direction	Azimuth Range: 0 – 360 degrees Resolution: 0.1 degree Accuracy: ± 2 degrees
Temperature	Range: -40 to +60°C Resolution: 0.1°C Accuracy: $\pm 0.3^\circ\text{C}$ (-20 – +50°C) $\pm 0.7^\circ\text{C}$ (other)
Relative Humidity	Range: 0 – 100% Resolution: 0.1% Accuracy: $\pm 2\%$
Atmospheric Pressure	Range: 500 – 1100 hPa Resolution: 0.1 hPa Accuracy: ± 0.3 hPa (0 – 60°C) ± 1 hPa (-40 – 0°C)
Electronic Compass (Model 92500)	Range: 0 – 360 degrees Resolution: 0.1 degree Accuracy: ± 2.0 degrees
Serial Output (selectable)	Interface: RS-232, RS-485/422, SDI-12 Formats: NMEA, SDI-12, ASCII (polled or continuous) Baud Rates: 1200, 4800, 9600, 19200 and 38400
Power	Voltage: 10 – 30 VDC Current: 7 mA @ 12 VDC typical, 80 mA max
General	Protection Class: IP65 EMC Compliance: FCC Class A digital device, IEC Standard 61326-1 Dimensions: 30 cm high x 13.5 cm wide Weight: 0.7 kg (1.5 lb) Shipping Weight: 1.6 kg (3.5 lb) Operating Temperature: -40 to +60 °C Removable Bird Spikes: Included



The *ResponseONE™* is compatible with a broad range of data loggers and displays, including the YOUNG Model 26800 Translator.

 Complies with applicable CE directives.

Ordering Information

MODEL

ResponseONE™ Weather Transmitter..... 92000

ResponseONE™ Weather Transmitter..... 92500
w/Internal Compass



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