

weather



Model 92000

*Response***ONE**<sup>™</sup> 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. 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.



The design of the *ResponseONE™* was analyzed using computer aided engineering (CAE) tools including computational fluid dynamics (CFD) modeling.

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



## 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: $\pm 2$ degrees
Temperature	Range: -40 to +60°C
	Resolution: 0.1°C
	Accuracy: $\pm 0.5^\circ\text{C}$
Relative Humidity	Range: 0 – 100%
	Resolution: 1%
	Accuracy: $\pm 2\%$
Atmospheric Pressure	Range: 500 – 1100 hPa
	Resolution: 0.1 hPa
	Accuracy: $\pm 0.5$ hPa
Electronic Compass	Range: 0 – 360 degrees
	Resolution: 1 degree
	Accuracy: $\pm 2.0$ 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



**CE** Complies with applicable CE directives.

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## Ordering Information

MODEL

*ResponseONE™* Weather Transmitter.....92000