

weather



Model 92000

*Response* **ONE**<sup>™</sup> Weather Transmitter

The YOUNG *Response ONE™* 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 *Response ONE™* 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 *Response ONE™* was analyzed using computer aided engineering (CAE) tools including computational fluid dynamics (CFD) modeling.

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



## Specifications

<b>Wind Speed</b>	Range: 0 – 70 m/s (156 mph) Resolution: 0.01 m/s Accuracy: ±2% or 0.3 m/s (0 – 30 m/s) ±3% (30 – 70 m/s)
<b>Wind Direction</b>	Azimuth Range: 0 - 360 degrees Resolution: 0.1 degree Accuracy: ±2 degrees
<b>Temperature</b>	Range: -40 to +60°C Resolution: 0.1°C Accuracy: ±0.3°C (-20 - +50°C) ±0.7°C (other)
<b>Relative Humidity</b>	Range: 0 – 100% Resolution: 0.1% Accuracy: ±2%
<b>Atmospheric Pressure</b>	Range: 500 – 1100 hPa Resolution: 0.1 hPa Accuracy: ±0.3 hPa(0 - 60°C) ±1 hPa(-40 - 0°C)
<b>Electronic Compass</b>	Range: 0 – 360 degrees Resolution: 0.1 degree Accuracy: ± 2.0 degrees
<b>Serial Output (selectable)</b>	Interface: RS-232, RS-485/422, SDI-12 Formats: NMEA, SDI-12, ASCII (polled or continuous) Baud Rates: 1200, 4800, 9600, 19200 and 38400
<b>Power</b>	Voltage: 10 – 30 VDC Current: 7 mA @ 12 VDC typical, 80 mA max
<b>General</b>	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.

**Ordering Information** MODEL

**Response ONE™** Weather Transmitter.....**92000**



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