Weather




YOUNG

NEW!

Model 93000

ResponseONE-PRO™ Weather Transmitter

陕西威瑞仪器仪表有限公司 生产代理销售：实验检测设备 气象科学仪器设备
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# YOUNG Model 93000 *ResponseONE*-PRO™ Weather Transmitter

The brand NEW ***ResponseONE*-PRO™** Weather Transmitter is a compact instrument that measures the same four key meteorological variables as traditional all-in-one stations (wind speed and direction, atmospheric pressure, relative humidity, and temperature), but with a twist. **This new design, backed by 3 years of successful field testing, features an access port so you can easily remove and replace the protective filter and internal sensor module.** That allows you to quickly service or replace the internal sensors or plug in a pre-calibrated sensor module, restoring the performance back to factory standards without the need to return to the manufacturer. No more long shipping times or costly delays.



The ***ResponseONE*-PRO** features an access port, so you can easily remove and replace the protective filter and internal sensor module.

The new ***ResponseONE*-PRO** all-in-one weather station features durable, corrosion-resistant construction and is designed for simple installation and wiring. The optional integrated compass enables mobile applications, and terminals are included for easy connection of the optional tipping bucket rain gauge. In addition, a variety of useful serial output formats are provided. Output may be continuous or polled to conserve power. 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, so you can customize device settings to meet your needs.

## Ordering Information — Model

***ResponseONE*-PRO™** Weather Transmitter.....93000

***ResponseONE*-PRO™** Weather Transmitter.....93500
with Internal Compass

## Specifications

| | | |
|---|---|---|
| **Wind Speed** | **Range:** | 0 – 70 m/s (156 mph) |
| | **Resolution:** | 0.01 m/s |
| | **Accuracy:** | ±2% or 0.3 m/s (0 – 30 m/s)<br>±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** | ±0.3°C (-20 - +50°C)<br>±0.7°C (other) |
| **Relative Humidity** | **Range:** | 0 – 100% |
| | **Resolution** | 0.1% |
| | **Accuracy:** | ±2% |
| **Atmospheric Pressure** | **Range:** | 500 – 1100 hPa |
| | **Resolution:** | 0.1 hPa |
| | **Accuracy:** | ±0.3 hPa (0 - 60°C)<br>±1 hPa (-40 - 0°C) |
| **Electronic Compass** (Model 93500) | **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<br>(polled or continuous) |
| | **Baud Rates:** | 1200, 4800, 9600, 19200, and 38400 |
| **Power** | **Voltage:** | 10 – 30 VDC |
| | **Current:** | 7 mA @ 12 VDC typical,<br>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*-PRO** is compatible with a broad range of data loggers and displays, including the YOUNG Model 26800 Translator.

CE Complies with applicable CE directives.

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