



## Humidity Temperature Probe S7482

- In order to achieve the best possible humidity and temperature measurement, Coastal Environmental Systems uses a standard humidity sensor, but replaces the usual RTD with a wider range, more accurate, thermistor.

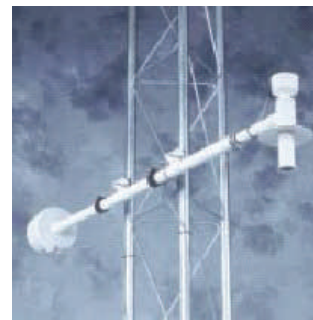
### TEMPERATURE PROBE

This Temperature Probe is a high reliability, wide range temperature sensor. Powder metal oxide mixes are precisely formulated and pressed into densely packed disks. These disks are sintered to achieve the characteristic “slope” of the thermistor. The disks are then metalized to allow for electrical contact. Calibration is accomplished by use of a patented method of material removal to achieve the final interchangeability specification. The thermistor is encapsulated with epoxy or glass to isolate it from the measurement environment. All of the thermistors are measured at multiple temperatures to ensure that the resistance and slope are within the devices interchangeability specification.



### HUMIDITY PROBE

This Humidity Probe has a proven track record for reliability and accuracy with thousands of units in daily use under diverse climatic conditions around the world. The probe combines advanced microprocessor and ASIC technology into a well proven, accurate, and durable sensor. The probe offers true, 100% interchangeability, and can be replaced in seconds without any calibration or loss of accuracy. A non-volatile memory retains the calibration data, sensor characteristics, serial number, etc. The probe is temperature compensated, with a low heat absorption color, and has long term stability of < 1% RH/year. Accurate measurements are recorded from 0 to 100% RH.





## Technical Specifications

**S7482**

### TEMPERATURE PROBE

Operating Range: -62°C to +60°C  
Accuracy: +/- 0.1 C

### HUMIDITY PROBE

Operating Range: -40°C to +60°C  
Output Signals: 0 to 1 VDC = 0 to 100% RH  
(linear)  
Accuracy: +/- 1.5% RH from 0 to 100%  
RH (at 20°C to 25°C)  
Repeatability: +/- 0.1% RH