



**J & S Instruments, Inc.**

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## **AS-130 COMBINATION RELATIVE HUMIDITY and TEMPERATURE PROBE DATA SHEET**

The AS-130 Combination Relative Humidity and Temperature Probe utilizes a high accuracy capacitive humidity sensor and Pt1000 element with a 1000 ohm European alpha curve of .00385.

The relative humidity portion of this probe is designed so as to never require calibration in the field. It has an interchangeable sensor that simply plugs in when it is necessary for field service or upgrade. The electronics are built right in the cylindrical probe body so all the user has to do is supply the operating voltage and review the output via the six foot long color coded cable. The packaging is engineered for the harshest environments and is IP65 (NEMA 4) classified due to its metallic construction. The removable membrane filter protects the sensor from dust and dirt.

The temperature portion of this probe offers a passive resistance output. The unit has a two wire connection for temperature measurement on a data logging or other device capable of exciting the element and reading/translating the result.

### **SPECIFICATIONS:**

#### **RELATIVE HUMIDITY**

Sensor type:	Capacitive
Measuring range:	0 to 100% RH
Accuracy @ 20° C:	2% from 0 to 90% RH 3% from 90 to 100% RH
Stability:	±2% over 2 years
Operating temperature:	-10 to 60° C
Output:	0.00-1.00 VDC
Supply voltage:	7 to 28 VDC
Supply current:	2 mA

#### **TEMPERATURE**

Sensor type:	RTD 1000 ohm @ 0° C
Element curve:	.00385 ohms/ohm/° C
Measurement range:	-40 to 60° C
Accuracy @ 20° C:	±0.6° C

(continued)

## GENERAL

Dimensions: 2.72" L x .47" Dia.  
Cable: 6 conductor w/ shield,  
24 gauge, 6 feet long

The AS-130 Combination Relative Humidity and Temperature Probe comes complete with a full one year warranty against defects in materials or workmanship.

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