MODEL 5722 Relative Humidity & Temperature Probe

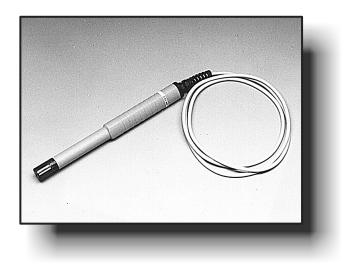
- **0** to 1VDC Temperature & Humidity
- Measures RH Over Full Range



Dewpoint Temperature May Be Calculated

HIGH SIERRA ELECTRONICS PHONE: (800) 275-2080

FAX: (530) 273-2089



SPECIF<u>ICATIONS:</u>

Humidity Measurement Accuracy at 68° F. (+20° C.) . . . Typical Long-term Stability . .

0 to 100% RH Non Condensing <u>+</u>2% RH (0 to 90% RH) <u>+</u>3% RH (90 to 100% RH) Better than 1% RH per Hour

TEMPERATURE

Temperature Range	-40° to +
Accuracy	<u>+</u> 0.27°F.
Output	0 - 1V (o
Dewpoint Temperature	-40°F. to
Absolute Humidity	0 to 160
Wet Bulb Temperature	32° to 14
Mixing Ratio	0 to 160
Operating Temperature	-40° to +
Housing Material	ABS Pla
Housing Classification	NEMA
Weight	160 Gra

0 - 1V

 -140° F. (-40° to $+60^{\circ}$ C.) $(+ 0.15^{\circ}C.)$ optional 0 - 5V) $+140^{\circ}$ F. (-40° to 60° C.) glm³ 40° F. (0° to 60° C.) glKg d.a. -140°F. (-40° to 60°C.) astic 4 ms

DESCRIPTION:

The Model 5722 Relative Humidity & Temperature Probe was specifically designed for use in complex systems such as weather stations. The probe features low power consumption, 0-1 VDC output signals and is easy to install into a Model 5728/29 Solar Radiation Shield.

The 5722 measures relative humidity over the full range of 0 - 100% RH both quickly and Humidity is measured by the accurately. capacitance change of a thin polymer film as it absorbs or releases moisture. The sensor provides long-term stability and low hysteresis, is not damaged by condensation, and is insensitive to dust or industrial pollutants - important features for a sensor located in outside ambient conditions. The Model 5722 has temperature compensation, allowing high accuracy to be maintained over a broad temperature operating range.

In addition to the RH sensor, the 5722 contains a PT100 temperature sensor. This sensor measures ambient temperatures and allows the dewpoint temperature to be calculated, if desired. The 5722 comes standard with a 15' cable.

A waterproof quick disconnect allows the sensor and it's associated electronics to be removed from the cable in a few seconds while in the field. With a spare sensor, maintenance and calibration can then be performed at the shop.

ORDERING GUIDE:

Model 5722....

Relative Humidity & Temperature Probe

OPTIONAL:

Model 5702	Extra Cable, 5 Conductor
	(1' Increments)
Model 5520	Humidity Calibrator
Model 4005	Converts 0 - 1V to 0 - 5V
Model 5728	Solar Radiation Shield (12 Disc Profile)
Model 5729	Solar Radiation Shield (6 Disc Profile)

ACCURACY YOU CAN COUNT ON