

MODEL 5723

Relative Humidity & Temperature Probe

- Long Term Calibration-Free Operation
- High Accuracy & Repeatability
- Resists Condensation & Contaminants
- Fully Interchangeable with No Loss of Accuracy



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089



DESCRIPTION:

The Model 5723-00 Relative Humidity & Temperature Probe is designed for use outdoors as a stand-alone sensor or with data loggers, transmitters, or other remote processing units. The probe operates from AC or DC voltage. Calibration data, sensor characteristics, serial number, etc. are retained in a non-volatile memory within the probe. As such, the probe can be changed within seconds without any calibration and without any loss of accuracy.

The 5723 is easy to integrate into any system. It has two analog output signals and a one-wire digital output.

The 5723 is based on HygroClip2 technology. This enables the probe to compensate humidity and temperature over 30,000 reference points, calculate the dew/frost point, provide active alarming, and perform sensor auto-diagnostics and automatic correction.

By decoupling the temperature sensor from the probe, thermal response is significantly improved. The latest in filter technology provides a high level of protection and maintains the optimum measurement environment for the humidity and temperature sensors.

The operating range is 0 to 100% RH and -40° C. to 60° C. Standard factory calibration results in an accuracy of $\pm 0.8\%$ RH and $\pm 0.2^\circ$ C. at 23° C.

SPECIFICATIONS:

Sensor Protection.....	Wire Mesh Filter, standard (Foam filter optional)
Operating/Measuring Range.....	-40° C. to +60° C., 0 to 100 RH%
Accuracy at 23 C.....	$\pm 0.8\%$ RH & $\pm 0.2^\circ$ C.
Voltage Supply.....	5-24 VDC / 5-16 VAC
Current Consumption.....	4mA
Output Signal	
Humidity.....	0 - 1 VDC = 0 to 100% RH
Temp (active).....	0 - 1 VCD = -40° C. to 60° C.
Humidity Sensor Stability.....	Better than 1% RH Over a Year
Cable Length Compensation.....	Effective up to 300' (100mm)
Size.....	4.7" L (119mm)
Weight.....	7.5 oz. (210g)
Shipping Weight.....	2 Pounds

ORDERING GUIDE:

Model 5723-00.....	Relative Humidity & Temperature Probe with 16 Foot Voltage Regulator Cable (5M)
Model 5102-00.....	Extra Signal Cable (per Foot)

OPTIONAL:

Model 5723-03.....	Cap with Non-Replaceable Wire-Mesh Filter Insert
--------------------	--

02-5723-00(A)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: info@highsierraelectronics.com