

# Model 5722-01 Relative Humidity & Temperature Probe

- High Accuracy & Good Stability
- Low Power Consumption
- Quick Disconnect for Field Service



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## BENEFITS:

- Combine with a wind speed & direction, solar radiation, and rain sensors for a complete evapotranspiration weather station.
- Gather precise temperature/relative humidity data to make your other meteorologic measurements better.
- Improve effectiveness of your smart building automation system.

## DESCRIPTION:

The Model 5722-01 Relative Humidity and Temperature Probe was specifically designed for use in complex systems such as weather stations. The probe features low power consumption and fast startup for battery powered applications.

The 5722-01 measures relative humidity over the full range of 0 to 100% RH both quickly and accurately. Humidity is measured by the capacitance change of a thin polymer film as it absorbs or releases moisture. The sensor provides long-term stability and is insensitive to dust or industrial pollutants -- important features for a sensor located in outside ambient conditions.

The 5722-01 has temperature compensation, allowing high accuracy to be maintained over a broad temperature operating range.

A waterproof quick disconnect feature allows the sensor and its associated electronics to be removed from the cable in a few seconds while in the field.

02-5722-01(B)

*Environmental Monitoring Solutions*

WEB SITE: [www.highsierraelectronics.com](http://www.highsierraelectronics.com) E-MAIL: [sales@highsierraelectronics.com](mailto:sales@highsierraelectronics.com)

# Model 5722-01 Relative Humidity & Temperature Probe

## SPECIFICATIONS:

### Relative Humidity

Measurement Range . . . . . 0 to 100% RH

Accuracy Over Temperature Range and 0 to 90% RH

32° to 104° F (0° to 40° C) . . . . .  $\pm 1.5\%$  RH

-40° to 32° F (-40° to 0° C) . . . . .  $\pm 3\%$  RH

104° to 176° F (40° to 80° C) . . . . .  $\pm 3\%$  RH

Accuracy Over Temperature Range and 90 to 100% RH

32° to 104° F (0° to 40° C) . . . . .  $\pm 2.5\%$  RH

-40° to 32° F (-40° to 0° C) . . . . .  $\pm 4\%$  RH

104° to 176° F (40° to 80° C) . . . . .  $\pm 4\%$  RH

Stability . . . . .  $\pm 2\%$  RH over 2 years

### Temperature

Measurement Range . . . . . -40° to 176° F (-40° to 80° C)

Accuracy Over Temperature Range

32° to 104° F (0° to 40° C) . . . . .  $\pm 0.4^\circ$  F ( $\pm 0.2^\circ$  C)

-40° to 32° F (-40° to 0° C) . . . . .  $\pm 0.7^\circ$  F ( $\pm 0.4^\circ$  C)

104° to 176° F (40° to 80° C) . . . . .  $\pm 0.7^\circ$  F ( $\pm 0.4^\circ$  C)

Operating Voltage . . . . . 5 to 28 VDC

Current Draw . . . . . 1 mA average, max peak 5 mA

Cable . . . . . 32 ft (9.75 m) 4-conductor, 22 AWG, 4-Pin MS connector

Body Thread . . . . . M12x1/10 mm

Operating Temperature Range . . . . . -40° to 176° F (-40° to 80° C)

Dimensions . . . . . 2.8 x 0.47 in (7.1 x 1.2 cm) (L x Dia)

Estimated Weight . . . . . 1 lb (0.45 kg)

Shipping Weight . . . . . 3 lbs (1.36 kg)

## ORDERING GUIDE:

Model 5722-01 . . . . . Temperature & Relative Humidity Sensor; Includes: 0-1 V Output and 32 ft (9.75 m) Signal Cable with 4-pin MS Connector.  
*Model 5728-00 Radiation Shield Sold Separately.*

## OPTIONS/SPARE PARTS:

Model 5728-00 . . . . . Radiation Shield; Includes: 10 Plate Solar Radiation Shield, and Mounting Hardware

See [www.highsierraelectronics.com](http://www.highsierraelectronics.com) for more specification and ordering information.

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