

## 225-HMP60 Humidity/Temp

The **225-HMP60A Relative Humidity & Temperature Sensor** features the laser trimmed INTERCAP® capacitive for accurate relative humidity measurements. The chip is user replaceable and requires no calibration. A membrane filter protects the sensor from dirt and dust. The 225-HMP60A also measures temperature. The sensor should be mounted in a solar radiation shield when placed outdoors.

### Specifications

Humidity measurement range: 10 to 90% (for which accuracy is specified)  
 Humidity accuracy: Better than  $\pm 3\%$  @ +68°F (+20°C)  
 Humidity operating range: 0-100% RH  
 Stability:  $\pm 2\%$  RH over 2 years  
 Temperature measurement range: -40° to +140°F (-40° to +60°C)  
 Temperature accuracy: 1.1°F ( $\pm 0.6^\circ$ ) @ +68°F (+20°C)  
 Input power: 7-28 Vdc  
 Current consumption: 2 mA typical  
 Output signal: 0 to 1 Vdc standard, 0 to 5 Vdc available  
 Housing material: Chrome-coated aluminum (IP 65)  
 Size: 0.47" Dia (12 mm) x 3" L (80 mm), threaded M12 x 1  
 Cable length: 12" (313 mm) with molded connector  
 Cable connector: Screw-on 4-pin M8 molded 1.5" L (37 mm)

### Ordering Information

225-HMP60A	Relative Humidity & Temperature Sensor, with 4-pin connector
220-15778	Replacement Humidity Chip, INTERCAP®
220-17039	Replacement Membrane Filter
330-0524	Sensor Cable for 225-HMP60, 5C 24AWG



225-HMP155A & 225-HMP60A Relative Humidity & Temperature Sensors

## 225-HMP155 Humidity/Temp

The **220-HMP155D Humidity Sensor** provides reliable humidity measurement utilizing a new generation HUMICAP 180R sensor that has excellent stability and withstands well in harsh environments. The probe structure is solid and the sensor is protected with a sintered teflon filter. The 220-HMP155D is especially designed for use in meteorological applications and hydrological weather stations. It has a weatherproof IP66 housing and 11 feet of cable with an 8-pin MP12 connector. An electrical circuit in the sensor body converts the capacitance to a voltage output which is linearly proportional to the ambient relative humidity. Calibration adjustment potentiometers are provided.

The **225-500-B Relative Humidity & Temperature Sensor** has the addition of an integrated circuit transducer that provides a linear microamp current output proportional to temperature. The **225-501-B** utilizes a one-element thermistor and the **225-HMP155A** uses an active temperature circuit with a linear 0-1 Vdc output. Contact NovaLynx for other temperature sensor options.

### Specifications

**220-HMP155D Humidity Sensor**  
 Sensing element: Thin film capacitor, with membrane filter  
 Measuring range: 0-100% RH  
 Output: 0-1 Vdc with high and low calibration adjustments  
 Accuracy:  $\pm 1\%$  (0-90% RH)  $\pm 2\%$  (90-100% RH) at 20  
 Response time: 20 seconds with filter  
 Operating temperature: -40° to +140°F (-40° to 60°C)  
 Excitation voltage: 7-35 Vdc  
 Power consumption: < 4 mA  
 Size: 0.75" Dia x 9.45" L  
 Weight/shipping: 10 oz/1 lb

**225-HMP155A Relative Humidity & Temperature Sensor**  
 Humidity: Same as 220-HMP155D  
 Temperature: Same as 225-HMP60A

**225-500-B Relative Humidity & Temperature Sensor**  
 Humidity: Same as 220-HMP155D  
 Temperature: Same as 210-201

**225-501-B Relative Humidity & Temperature Sensor**  
 Humidity: Same as 220-HMP155D  
 Temperature: Same as 110-WS-16T

### Ordering Information

220-HMP155D	Relative Humidity Sensor, 11' cable
225-HMP155A	Relative Humidity & Temperature Sensor, 11' cable
225-500-B	Relative Humidity & Temperature Sensor, 11' cable
225-501-B	Relative Humidity & Temperature Sensor, 11' cable
220-180R	Replacement Humidity Sensing Element
220-219452SP	Replacement Teflon Filter
330-0524	Sensor Cable, 5 conductor 24AWG shielded