

Relative Humidity & Air Temperature Sensor Envirotech RT10

The Envirotech RT10 Relative Humidity and Temperature Sensor provides a compact, economical & reliable system for monitoring Ambient Air. The Humidity Sensor is based upon the capacitance change of a polymer thin film capacitor. In-built signal conditioning electronics provides an amplified and linear output proportional to the Relative Humidity. The RT10 sensor is in widespread use with several hundred units in operation all over the country.

The Temperature Sensor included in the sensor assembly is a PT1000 Platinum Resistance element having a linear response over the 0 to 60 deg C operating temperature range.

Envirotech supplies the Humidity / Temperature sensor complete with a Radiation shield and 20 m cable for interface to data loggers. The white powder coated radiation shield is made from seasoned wood. The concentric plates allow free movement of ambient air and provide an effective shield minimizing the effect of solar and terrestrial radiation on the temperature measurement.



Specifications of Relative Humidity Sensor

Principle	: Solid State Thin film Capacitor based Humidity Sensor
Range	: 3-99%
Operating Temp	: 0 to 60 deg C
Response time	: Less than 15 sec
Accuracy	: +/- 3 % of full scale reading
Resolution	: 0.1%
Stem	: Powder Coated Brass.

Specifications of Temperature Sensor

Principle	: Standard PT1000 Platinum Resistance
Range	: 0 to 60 deg C
Accuracy	: +/- 0.2 deg C
Resolution	: 0.1 deg C
Stem	: Powder coated Brass

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