

MODEL 2048RH/T, 2046T & 2046WT Relative Humidity and Temperature Sensors

General Description

The HydroLynx relative humidity and temperature sensors are designed for use in meteorological monitoring stations. Model 2048RH/T has both relative humidity and air temperature in a single probe. Models 2046T and 2046WT are temperature only sensors for monitoring air and water. The air sensors are mounted in the Model 4550 Solar Radiation Shield.

The 2048RH/T combines microprocessor technology for accurate linearization of both sensors over the entire range of measurement with an advanced humidity sensor that exhibits exceptional resistance to contaminants providing accuracy and durability for a wide range of applications.

The 2046T and 2046WT sensors use an integrated circuit transducer that provides a linear output current proportional to the absolute temperature. A signal conditioning board calibrates the measured temperature range over a 0-5 Vdc output.

Specifications

Model 2048RH/T Relative Humidity and Temperature Sensor

Power: 12 Vdc \pm 20%
 Current:..... <4 mA
 Measuring range
 Humidity: 0 to 100%RH
 Temperature:..... -40 to +140 °F (-40 to +60 °C)
 Operation range:..... -40 to +185 °F (-40 to +85 °C)
 Accuracy at 23 °C
 Humidity: \pm 1.5 %RH
 Temperature:..... \pm 0.6 °F
 Output signal: 0 to 5 Vdc
 Dimensions:..... 6.75 in. x 0.59 in.
 Weight: 10 oz.
 Shipping weight 1 lb.

Models 2046T Temperature & 2046WT Water Temperature Sensors

Power: 12 Vdc \pm 20%
 Current:..... <20 mA
 Measuring range:
 2046T: -80 to +175 °F (-62 to +80 °C)
 Temperature:..... +32 to +122 °F (0 to +50 °C)
 Operation range:..... -40 to +185 °F (-40 to +85 °C)
 Accuracy: \pm 1 °F
 Output signal: 0 to 5 Vdc
 Dimensions:..... 2.5 in. x 0.38 in.
 Weight: 6 oz.
 Shipping weight 1 lb.

Ordering Information

2048RH/T Relative Humidity and Temperature Sensor includes 25 ft. Cable with MS connector and 4550 Solar Radiation Shield.
 2046T Temperature Sensor includes signal conditioning, 25 ft. Cable with MS connector and 4550 Solar Radiation Shield.
 2046WT Temperature Sensor includes signal conditioning, 25 ft. direct burial cable and 25 ft. signal cable with MS connector.
 4550 Solar Radiation Shield.
 2048C Additional signal cable, per foot.



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