



MODELS 2048RH/T & 2046T 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. Model 2046T is a temperature only sensors for monitoring air. 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 sensor uses 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 ± 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	± 1.5 %RH
Temperature	± 0.6 °F
Output signal	0 to 5 Vdc
Dimensions	6.75 in. x 0.59 in.
Weight	10 oz.
Shipping weight	1 lb.
Model 2046T Temperature Sensor	
Power	12 Vdc ± 20%
Current	<20 mA
Measuring range	
2046T	-80 to +175 °F (-62 to +80 °C)
Operation range	-40 to +185 °F (-40 to +85 °C)
Accuracy	± 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; 4550 Solar Radiation Shield
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2046T	Temperature Sensor — Includes: Signal conditioning; 25 ft. Cable with MS connector; 4550 Solar Radiation Shield
4550	Solar Radiation Shield
2048C	Additional signal cable, per foot