

Product Description

The ACP-O Outside Air Temperature sensor uses a 10K Ohm (Type II) thermistor sensor. This sensor provides a predictable output over a specified temperature range to meet the snap! thermostat required input values. The ACP-O can be used in many different snap! applications.

Thermistors offer high accuracy and interchangeability over a wide temperature range. The thermistors higher resistance relative to Platinum RTD's creates a larger signal with the same measuring current, negating most lead wire resistance problems and eliminating the need for signal conditioners.



Features & Application Highlights

Features	Benefits
• Calibration	➢ An offset can be added/subtracted to actual displayed outside air temperature
• Heat Pumps High Balance Point	➢ Locks out auxiliary heating when above this set point
• Heat Pumps Low Balance Point	➢ Locks out heat pump compressor operation when below this set point
• All Units Heating Lockout	➢ Disables heating stage operation based on outside air temperature
• All Units Cooling Lockout	➢ Disables cooling stage operation based on outside air temperature
• Units with Economizer, Changeover Set Point	➢ Set point at which cooling switches from mechanical to free cooling (economizer)

Technical Data

• Output	➢ 10,000 Ohms @77 °F (25 °C) Type II
• Operating Temperature Range	➢ -40 to 302 °F (-40 to 150 °C)
• Interchangeability	➢ +/- 0.2 °C @25 °C (70 °F)
• Dissipation Constant	➢ 3mW °C nominal
• Accuracy	➢ +/- 0.2 °C form 0-70 °C
• Operating Humidity	➢ 0 to 90% RH non-condensing

Ordering Information

MODEL NUMBER	DESCRIPTION
ACP-O	Outside Air Temperature Sensor with Weather Proof Enclosure (10K Ohm, Type II)