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(54) Title: THERMAL COMFORT CONTROLLER**(57) Abstract**

A controller for a climate control system has a relative humidity sensor as well as a dry-bulb temperature sensor within the enclosure. The humidity value is used in conjunction with the dry-bulb temperature to generate an apparent temperature error signal which is a function of both the dry-bulb temperature and the relative humidity values. This permits robust control of both enclosure temperature and enclosure moisture content without abnormal cycling of the climate control system. Instead of using a sensor which directly measures the apparent temperature, the apparent temperature can be synthesized from the relative humidity and dry-bulb temperature within the enclosure. Alternately, the sensed and set point apparent temperature values can be synthesized from any two thermodynamic properties of the moist air within the enclosure.