

## Using Veris Temperature Sensors in LEED Certification

LEED certification credits include a number of indoor environmental quality criteria. In the Existing Buildings and New Construction ratings systems, these criteria include credits for temperature control systems.

To earn these points, the building owner must demonstrate that the climate control system used in the building is capable of monitoring the air quality and adjusting as needed to preserve interior comfort and healthy conditions while avoiding excessive energy use.

Temperature is perhaps the most recognizable factor in assessing interior comfort. Veris temperature sensors and thermostats provide continuous monitoring of temperature levels, providing the building control system with accurate real-time data regarding the temperature levels throughout the building. The control system uses this information to adjust the operation of the ventilation system as needed, without running the heating or air conditioning system when it is not required.

It is the responsibility of the building owner to design an energy-efficient, comprehensive ventilation system that monitors and adjusts interior air quality to maintain comfort levels. To assess thermal control, LEED requires that ASHRAE Standard 55-2004 be used as a guideline.

LEED points are awarded based on the effectiveness of the overall thermal control design. Veris Industries can help by providing high quality BAS peripherals that are easily integrated into control systems, allowing accurate, real-time measurement of air quality parameters.

Veris temperature sensors are available in a variety of housings, including wall mount, duct mount, and probe sensors. Analog and digital outputs are available for seamless integration with the building control system. Contact a Veris representative to help you with your LEED needs.

Program	Criteria	Requirement	Products Available
Existing Buildings	EQ 2.3 (1 point)	"Have in place a system for continuous tracking and optimization of systems that regulate indoor comfort and conditions (air temperature, humidity, air speed and radiant temperature) in occupied spaces. Have a permanent monitoring system to ensure ongoing building performance to the desired comfort criteria as determined by ASHRAE 55-2004, Thermal Comfort Conditions for Human Occupancy."	
New Construction	EQ 6.2 (1 point)	"Provide comfort system controls for 50% (minimum) of the building occupants to enable adjustments to meet individual needs and preferences...Conditions for thermal comfort are described in ASHRAE Standard 55-2004 and include the primary factors of air temperature, radiant temperature, air speed and humidity."	<ul style="list-style-type: none"> <li>• Duct mount: TD, TDDA, TF, TG, TA, TB</li> <li>• Wall mount: TWS, TW, TE, TEA</li> <li>• Ceiling mount: TC, TS</li> </ul>
	EQ 7.1 (1 point)	"Design heating, ventilating, and air conditioning (HVAC) systems and the building envelope to meet the requirements of ASHRAE Standard 55-2004, Thermal Comfort Conditions for Human Occupancy."	