

Using Veris Humidity Sensors in LEED Certification

LEED certification credits include a number of indoor environmental quality criteria. To satisfy the requirements for these credits and earn the corresponding LEED points, a building owner or building automation system (BAS) designer must show that their interior climate control system is capable of monitoring air quality and providing adequate control of humidity levels.

Every LEED program has indoor environmental quality (IEQ) credits (see table below). To earn these points, the building owner must demonstrate that the ventilation system is capable of monitoring the air quality and adjusting as needed to preserve interior comfort and healthy conditions while avoiding excessive energy use.

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. In monitoring humidity, LEED requires that ASHRAE Standard 55-2004 be used as a guideline.

LEED points are awarded based on the effectiveness of the overall humidity 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. Humidity sensors and humidistats are easily integrated into building control systems, allowing a fast response to rising humidity levels, with no need for continuous operation of fans. This approach allows accurate control of interior humidity in an energy-efficient manner.

Veris humidity sensors are available in both wall and duct mounted housings with analog and digital outputs available for installation and application flexibility. Let Veris 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"> • Duct mount: HD, HED • Wall mount: HWL, HEW, HT, HWS
	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."	