Automatically Calibrating Daylighting Controller Optimizes Performance for Increased Savings

SANTA CLARA, CA February 2009 – Watt Stopper/Legrand has introduced a self-calibrating daylighting controller that reduces time-consuming installation and setup. The LS-102 Daylighting Controller provides closed loop, single zone, on/off switching of most types of lighting in response to daylight contributions.

The device is the first of its kind to continuously select and display on and off setpoints. Typically, on/off closed loop control devices require multiple calculations of on and off setpoints during set up, adding complexity and cost to installation. The LS-102 continuously and automatically calibrates itself, eliminating the need for repeated manual calibrations to capture changing light levels as room reflectance levels change. This reduces burdensome setup requirements. “One of the greatest barriers to marketplace acceptance of automatic daylighting controls has been the difficulty in confidently establishing on/off setpoints to match an application,” says Watt Stopper/Legrand President Jerry Mix, adding “the automatic calibration technology in the LS-102 should help overcome this barrier.”

The company teamed with the California Lighting Technology Center (CLTC) in Davis, California to refine and verify the automatic calibration technology. CLTC Associate Director Konstantinos Papamichael emphasizes the importance of the technological advance, commenting, “Automatic, continuous calibration is key to successful photosensor based daylight harvesting controls, which are most important to reducing energy requirements and peak electricity demand.”

When ambient light levels exceed the off setpoint, the LS-102 will turn controlled lighting off. When the on setpoint is triggered, lighting turns back on. The device features other adjustable settings, including deadband and time delay settings. Users may also team the photosensor with a low voltage wall switch to enable manual override or utilize the sensor’s optional hold on capability. Ideal applications include indoor areas where natural light significantly contributes to overall light levels, such as perimeter offices, skylit areas, and warehouses.

Watt Stopper/Legrand (www.wattstopper.com) is a leading manufacturer of energy efficient lighting controls for commercial and residential use. We help customers find convenient ways to save energy, meet green initiatives, and comply with energy codes with our comprehensive range of products, programs, and services. Legrand (www.legrandelectric.com), located in Limoges, France, is the world specialist in products and systems for electrical installations and information networks, offering solutions for use in residential, commercial and industrial buildings.

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