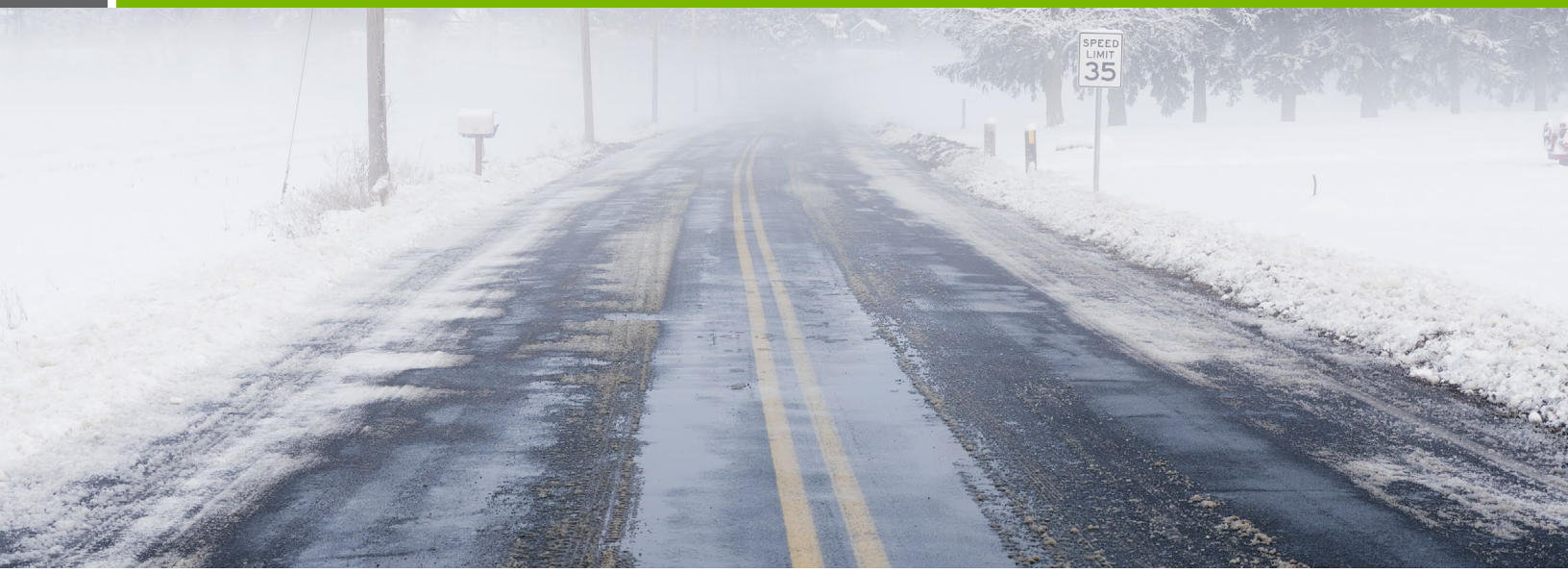
Smart Community Solutions
Freezing Temperature Sensing



Enhancing Road Safety by Alerting Traffic to Freezing/Icy Road Conditions

Landis+Gyr's Smart Community Solutions Freezing Temperature Sensing enables utilities to provide a visual signal to alert traffic to potentially hazardous freezing or icy road conditions. The warning light on the sensor flashes blue when such conditions may be present due to a sufficient drop in the outside ambient temperature. Freezing and black ice conditions may not be visible on the roadway, but the warning light signals to drivers to slow down, especially during on/off ramp approaches to controlled highways, and on bridges and overpasses, which are more susceptible to icing.

ENHANCED SAFETY FEATURES

- Sensors installed at on-ramps and off-ramps warn drivers to slow down as they approach, allowing them to prepare for hazardous conditions
- Warning drivers ahead of time to invisible icing can help prepare them, and prevent loss-of-control accidents

IMPROVED OPERATIONAL & ENERGY EFFICIENCIES

- Solution can be networked or non-networked, installed standalone at on/off-ramps, or as part of a larger data collection program
- Sensor thermocouple detects a drop in air temperature to 0° C / 32° F, when icy conditions may be present

COMPONENTS

- Landis+Gyr street light controller with integrated Network Node
- Command Center 7.1 MR3 or later
- Smart Community Center Software

ENHANCED SAFETY FEATURES

IMPROVED OPERATIONAL & ENERGY EFFICIENCIES

COMPONENTS

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Street Light Management

ENHANCED SAFETY FEATURES

IMPROVED OPERATIONAL & ENERGY EFFICIENCIES

COMPONENTS

PRODUCT SPECIFICATIONS

FCC Class B Device

CONTROLLER SPECS	
Dimensions of Controller	Diameter 3.5" (88mm), Height 3.6" (92mm)
Voltage	120-277V (50-60 Hz)
Material	Lexan™ SLX Polycarbonate
Ingress Protection	IP67, IP66
Temperature Rating	Operational -40°C to 60°C Storage -40°C to 85°C
Compatibility (General)	LED, HPS, and induction to a max load of 6A
Compatibility (Luminaire with ANSI C136.41 standard receptacle)	All Features supported by LED luminaires with 5 and 7 pin All features except dimming is supported on 3 pin HPS luminaires
Dimming Method	Complies with 0-10V DC (IEC60929) and DALI (IEC62386)
Dimming Ramping Process	Dimming in gradual steps every 6 seconds (e.g. 100% to 20% = 102 seconds)
Dimming Schedule	Daily or weekly recurring schedule with ability to schedule a special event, in 1 minute incraments with 1% resolutions
On / Off Trigger	Photo sensor for local lilght detection (selectable) with GPS based astronomical dawn/dusk back up
Dawn / Dusk Levels	On: 2.5 foot candles (fc) Off: 3.9 foot candles (fc) Configurable over the air

RADIO SPECS	
Frequency Range	902 to 928 MHz
Supported Data Rates	RF Mesh (N500): 9.6, 19.2, 38.4, 115.2 kbps RF Mesh IP (N550): 50, 150, 200 kbps
Output Power	High Min: 25, Typical: 26, Max: 27 dBm
Receiver Sensitivity	9.6 kbps Min: -114, Typical: -112, Max: -110 dBm 19.2 kbps Min: -112, Typical: -110, Max: -108 dBm 38.4 kbps Min: -110, Typical: -108, Max: -106 dBm 115.2 kbps Min: -102, Typical: -100, Max: -98 dBm 50 kbps Min: -107, Typical: -105, Max: -103 dBm 150 kbps Min: -99, Typical: -97, Max: -95 dBm 200 kbps Min: -98, Typical: -96, Max: -94 dBm

GET IN TOUCH

For more information and nationwide warranty terms, visit us at LandisGyr.com or call at 678-258-1500.

LET'S BUILD A BRIGHTER FUTURE TOGETHER

Since 1896, Landis+Gyr has been a global leader of energy management solutions. We've provided more than 3,500 utility companies all over the world with the broadest portfolio of products and services in the industry. With a worldwide team of 1,300+ engineers and research professionals, as well as an ISO certification for quality and environmental processes, we are committed to improving energy efficiency, streamlining operations, and improving customer service for utility providers.

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