Ice Warning System

FLASHING SIGN SYSTEM

TRAFFICALM

ICE WARNING SYSTEM

Without warning, cold roads can turn into an invisible sheet of black ice. Icy roads are a contributing factor in crashes that lead to thousands of deaths and serious injuries per year. Bridge decks and overpasses tend to freeze before the normal roadways. TraffiCalm offers a real-time ice warning system to motorists that enhances the effectiveness of static warning signs and provides more meaningful information to the driver than 24/7 flashing signs or beacons.

The TraffiCalm Ice Warning System includes an infrared road surface temperature sensor that also monitors humidity and calculates the dew point. When thresholds are met where conditions are likely to form ice on the roadway, the ice sensor triggers the controller to wirelessly activate advance flashing LED warning signs. When those conditions are no longer met, the sign will automatically stop flashing.

FEATURES

Ice Sensor Features

The non-intrusive ice sensor provides surface temperature, air temperature, relative humidity, and dew point measurements. Premium materials are used to meet the demands of road weather professionals.

Highly Visible LED Warning Signs

TraffiCalm fully outlines the shape of the sign, with the most LEDs on the market, for a bright, visible sign in any environmental condition.

Retrofittable LED Rings

Utilize existing signage and add our LED sign rings for a more cost-effective solution.

Ruggedized Electronics

All electronics, radios, and LEDs are fully epoxy-potted and environmentally sealed. The entire pole with the sign, controller, solar panels, and batteries can be fully submerged and still operate. (Not intended for underwater installations)

Made in the USA

TraffiCalm Flashing Sign Systems are manufactured in the USA in an ISO 9001:2015 certified facility, meeting and exceeding industry and state testing requirements. TraffiCalm signs are unmatched in durability, brightness, accuracy, and ease of installation and use. Build America/Buy America Compliant.

WATCH FOR ICE ON BRIDGE

Limited Warranty
5 YEAR
Exclusions Apply, see warranty statement for details

SPECIFICATIONS

Road Temperature Sensor

Dimensions 8"x3"x3", 2 lbs.

170 mA current draw

Surface Temp Range: -40° to 85° C (-40° to +185° F)

Accuracy ±0.2° C at 32, ±0.5° C at all other temps

Field of View 12°

Measurement sample: 2 ft (0.6m) at 10ft (3m)

Controllers and Collaborators

Compatible with all Intelligent Controllers and Collaborators

All electronics hermetically potted for weatherproofness

Controller Mounting: Universal side of pole mounting bracket. Top of pole kit available. Mounted behind solar panels or on pole-mounted cabinet

Inputs: 2 per controller. Accepts dry contact closure from Road Temperature Sensor

Outputs: 2 per controller, 20W max out, multiple flash patterns, including RRFB and 1hz MUTCD compliant flash

Flashing LED Enhancement

MUTCD and FHWA Compliant for all Warning Signs

AVAILABLE SIGN RING SIZES
24" Ring uses qty 48 LEDs
30" Ring uses qty 64 LEDs
36" Ring uses qty 80 LEDs
48" Ring uses qty 112 LEDs

Exceeds SAE J595 Class 1 Intensity

Meets SAE J578 for chromaticity

Auto dimming

48-112 Amber LEDs (depending on sign size) for Redundancy and Uniform Light Distribution

LED rated lifetime of 100,000 hours

Environmental

-29.2° F to 165.2° F operating range(-34° C to +74° C)

IP 68 Rated

Power Options

AC or Solar Power

Various solar and battery packages available based upon site locations

MPPT Solar Collection

DETAILS

Radio Collaboration

Secure Device-2-Device mesh-net radio network

Max 100ms wireless activation response time

Maximum Wireless range of 1,000ft (304m) line of sight (Performance varies by local environment and configuration of installation)

FCC Part 15, IC RSS standards compliant 2.4GHz radio

Unique Network ID clearly marked to speed installation

TraffiCalm® User Interface

WiFi Connectivity - No Internet Connection required. Configurable Flash Patterns

Wirelessly configures all devices on network

Unified Wireless Collaboration Activation & Setting

Configurable auto dimming and brightness profiles

Selectable flash duration: 1 second to 60 minutes

Integrated calendar time clock functionality

Built-in activation count & reporting

Compatible with TC-Remote Web Based Software

Warranty and Service

5-year limited warranty, 1 year on batteries

Unlimited tech support from US based factory technicians

M75-SA300-ICE0