



FLASHING SIGN SYSTEMS

ENVIRONMENTAL SENSORS

Road conditions matter, especially when weather takes a turn for the worse. *Knowing* that the road ahead is either clear or impeded can give drivers the piece of mind they need for safe travels.

With Flashing Sign Systems drivers can make informed, calculated decisions based on real-time information fed from remotely placed sensors far down the road.

Flood Sensor

Flooded roadways present a challenge to not only drivers but the maintenance people who manage them. In emergency scenarios, higher priorities may prevent temporary signs from going up at susceptible roads.

Enter TraffiCalm™ Systems' ability to provide a simple, inexpensive solution to a long standing problem. By using a proprietary method to measure the conductivity of rising water, our system can immediately warn drivers when the water level is too high.



Icy Road Sensor

Without warning, cold roads can turn into an invisible sheet of ice. To-date the advanced detection of icy conditions has proven difficult.

The TraffiCalm™ Ice Road Sensor provides advanced warning to drivers based on real-time road conditions. Reliable activations result from highly accurate, non-contact infrared temperature sensors placed up to 1,000 feet (300m) from the LED enhanced warning sign.

Features

Compatibility

- All SA300 Controllers and Collaborators
- Permanently and Environmentally Sealed Electronics
- Compact and lightweight aluminum enclosure
- Weight: under 30 lbs including battery
- Mounted behind solar panels

Power Options

- AC or Solar Power
- 20W Solar Panel with up to 60 Watt available
- MPPT Solar Collection

Visual LED Enhancement

- MUTCD and FHWA Compliant for all Warning Signs
- Fit 24", 30", 36", and 48" signs
- 48-112 Amber LEDs (Depending on sign size) for Redundancy and Uniform Light Distribution
- Exceeds SAE J595 Class 1 Intensity
- Auto Dimming
- Meets SAE J578 for chromaticity

Battery (Solar Models)

- 13 AH Extreme Climate battery available (purchased as "E" variant)
- Accessible Batteries, easily replaceable in field
- Lighter weight for ease of handling

Human Interface (HMI) TC Connect

- WiFi Connectivity - No Internet Connection required
- Configurable Flash Duration
- Automatic Unique Channel Selection
- Wirelessly configures all devices on network
- Traffic Data Recording / Reporting
- Auto and configurable dimming

Road Temperature Sensor Features

- Dimensions 8"x3"x3", 2 lbs.
- 170 μ A current draw
- Surface Temp Range: -40° to 85° C (-40° to +185° F)
- Accuracy $\pm 0.2^\circ$ C at 32, $\pm 0.5^\circ$ C at all other temps
- Field of View 12°
- Measurement sample: 2 ft (0.6m) at 10ft (3m)

Flood Warning Probe Features

- No minimum water level
- Depth of water accuracy ± 0.5 in (1.27cm)
- Peak water depth recorded with time stamp
- Detects all naturally occurring water
- No mechanical measurement means no clog failures

Our environmental detection solutions provide advanced warning to drivers based on real-time road conditions. Reliable activations results from highly accurate, easy to setup sensors and probes

The system alerts all drivers or pedestrians of approaching hazardous road conditions by locally or wirelessly flashing Warning Signs

Measures an intuitive sample of environmental activity to ensure live notification is only on when needed

Non-Invasive or off road sensors and probes mean faster time-to-operating without lane closures!

Can be used to trigger satellite signs within a configured network, repeating function can be used to increase range by hundreds of miles!

Efficient and ruggedized hardware work in extreme climates otherwise reserved for industrial grade equipment.

