

I - Series

INTELLIGENT CONTROLLERS & COLLABORATORS: I - SERIES

The core of the TraffiCalm® Flashing Sign systems, the Intelligent Controllers and Collaborators, are the "brains" of the group. These devices handle everything from flash rate to automatic brightness control to scheduling.

Each Controller or Collaborator allows inputs from a TraffiCalm Smart Radar Sensor and one additional activation device, like a pushbutton or a sensor. Additionally, it has outputs for two flashing LED rings, rectangular rapid flashing beacons, or round beacons, for example. The Flashing Sign Systems' possibilities are endless.

FEATURES

Easy Configuration and Setup

Quick configuration via TC-Connect, a Wi-Fi connection platform developed by TraffiCalm that requires NO Internet Connection! With any browser enabled device, the installer can easily log on and select from multiple options and settings including Flash Duration, LED Brightness, and Dimming Control. Optional TC-Remote compatible controllers allow agencies to remotely connect to multiple TraffiCalm Flashing Sign Systems in one easy-to-manage web-based platform.

Designed for roadways & harsh weather

All electronics are fully epoxy-potted and environmentally sealed. The entire Controller or Collaborator, solar panel, batteries, radar, and Flashing LED Sign Ring can be fully submerged and still operate. (Not intended for underwater installations)

One Controller - Multiple Applications

Each TraffiCalm Intelligent Controller or Collaborator can be configured to be an All-Flash System, Push-2-Cross System, Intelligent Beacon(s), Sequencing Chevron System, Conflict Intersection or High Water Warning System.

COMPLIANCE & STANDARDS

Built for regulatory confidence.

- Fully MUTCD Compliant
- Designed to standard highway sign dimensions and formats in accordance with MUTCD guidance
- Build America, Buy America Compliant
- ISO 9001 Certified Manufacturing



Exclusions Apply, see warranty statement for details

I - Series: SPECIFICATIONS

Physical Descriptions

- Mounting: Universal bracket accommodates most industry standard round or square posts of suitable load
- Designed for retrofit installation to existing infrastructure
- NEMA 4X Fiberglass Cabinet with padlock latch
- All electronics potted for weatherproofing
- Stainless fasteners used for corrosion resistance
- Equipment: -29° F to 165° F operating range(-34° C to +74° C)
- UL Listed Cabinet

Input/Output

- Inputs: 2 per Controller or Collaborator. Optional input devices include push buttons, environmental sensors, over-height sensors, and others
- Outputs: 2 per Controller or Collaborator, 20W max requirement. Output devices include: Sign Rings, Rectangular Rapid Flashing Beacons (RRFBs), and Round Beacons
- Radar Port: Accepts input from TrafficCalm® Smart Radar Sensor
- Light sensor for configurable auto-dimming feature based on ambient light conditions

Controller/Collaborator with Side-of-Pole Mounted Enclosures

Intelligent Controller Intelligent Collaborator TC-Remote Compatible Controller	M75-SA300-CTLI M75-SA300-CLBI M75-TCR00-CTLI
Weight	25.5 lbs/11.56 kg
Dimensions	9.28" w x 10.5" h x 5.21" d (23.6 cm, 26.7 cm, 13.2 cm)
AC/Solar	Solar Panel Kit sold separately
Battery	Deep Cycle LiFePO4 20Ah, 12V
Solar Panel	30, 50, or 60W kits available
AC Input	Does not apply
Cabinets	NEMA 4X Fiber Glass Cabinet with padlock latch

System Requirements

- Each "system" will have a maximum of one Controller. Additional signs on separate poles or posts in the system are run by Collaborators. For example, in a crosswalk there should be one Controller on one side of the street and one Collaborator on the other side of the street. When a push button is activated on either side of the street, both poles with rectangular rapid flashing beacons and rings flash simultaneously.

TC-Connect™ User Interface

- Wi-Fi Connectivity: No Internet Connection required
- Mode Selection: Pedestrian Crossing, Curve Warning, All Flash, Conflict Intersection, High Water Warning
- Configurable Flash Duration (60 flashes/minute by default)
- Retrievable activation logs are stored for at least 365 days
- On screen status reporting includes: Controller & Collaborator(s) signal strength, flasher output voltages, input voltage (battery or AC devices), charging voltage, & firmware versions

Radio Communication Between Controllers and Collaborators

- Wireless activation within 100 milliseconds
- Maximum Wireless range of 600 ft (183m) line of sight
- (Performance varies by local environment and configuration of installation)
- FCC Part 15, IC RSS standards compliant 2.4GHz radio
- Through hole mounted 2.4 GHz antenna

Warranty

- 5 year limited warranty, 1 year on batteries
- Support: Unlimited U.S.-based factory technical support

