

# Intelligent Controllers / Collaborators

## SLIMLINE SERIES (Z)



### INTELLIGENT CONTROLLERS: SLIMLINE SERIES (Z)

The core of the TrafficCalm® 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 TrafficCalm 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.

The Slimline Series allows the controller or collaborator to be mounted at the top of the pole, without any bulky side of pole enclosures.

### FEATURES

#### Easy Configuration and Setup

Quick configuration via TC-Connect, a Wi-Fi connection platform developed by TrafficCalm 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 TrafficCalm Flashing Sign Systems in one easy-to-manage web-based platform.

#### Ruggedized Electronics

All electronics are fully epoxy-potted and environmentally sealed. The entire Controller or Collaborator with solar panels and batteries can be fully submerged and still operate.

#### One Controller - Multiple Applications

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

#### Made in the USA

TrafficCalm Controllers/Collaborators are manufactured in the USA in an ISO 9001:2015 certified facility. In addition, we provide unlimited technical phone support for the life of the unit. Build America/Buy America Compliant.

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## SPECIFICATIONS

### Physical Descriptions

Controller terminal housing attaches to the top of any 4.5" (11.43 cm) outside diameter (O.D.) pole

Side mounts for dual horizontal beacons

Top mount for solar panel kit

NEMA 3R enclosure

Battery and battery tray mount in the pedestal pole base for complete slimline package

All electronics potted for weatherproofness

-40° F to +140° F (-40°C to +60° C) operating range (varies with battery type used)

### Input / Output

Inputs: 2 per Controller. Optional input devices include push buttons, environmental sensors, over-height sensors, and others

Outputs: 2 per Controller or Collaborator, 12W 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

### 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.

### Slimline Controllers/Collaborators

	AC Powered	Solar Powered
Intelligent Controller	M75-SA30A-CTLZ	M75-SA300-CTLZ
Intelligent Collaborator	M75-SA30A-CLBZ	M75-SA300-CLBZ
TC-Remote Compatible Controller	M75-TCROA-CTLZ	M75-TCROO-CTLZ
Dimensions	15.75"h/40 cm (including terminal housing) fits 4.5"/11.43 cm O.D. round pole	15.75"h/40 cm (including terminal housing) fits 4.5"/11.43 cm O.D. round pole
AC/Solar	Integrated AC	Solar Panel Kit sold separately
Battery	Not applicable	43 Ah Advanced AGM Battery
Solar Panel	Not applicable	60, 100, or 150W kits available
AC Input	120-240 VAC	Not applicable

### TC-Connect™ User Interface

Wi-Fi Connectivity: No Internet Connection required

Mode Selection: Pedestrian Crossing, Curve Warning, All Flash (Beacons), 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 to Collaborator(s) signal strength, Controller and Collaborator(s) flasher output voltages, Controller and Collaborator(s) input voltage (battery or AC devices), Controller and Collaborator(s) charging voltage, Controller and Collaborator(s) firmware version

### Radio Communication Between Controllers and Collaborators

Wireless activation within 100 milliseconds

Wireless range of 3,500 ft/1066.8 m line of sight, 1,500 ft/457 m non-line of sight

2.4 GHz radios

### Warranty and Service

5 year limited warranty, 1 year on batteries

Unlimited tech support from US based factory technicians

