

# CBD-8000 Series Controller Assembly



## Features

- Compact size is ideal for new intersection or upgrades where space is at a premium.
- Pretimed or fully-actuated operation.
- Complete ASC/2 Series controller programming and operational features.
- Maximum of 8 load switches, 4 channels of detection, 3 flash transfer relays, and 2 channels of preemption.
- TS2 Type 1 operation with 8-channel Malfunction Management Unit (MMU) for traffic safety and diagnostics.
- Utilizes TS2 standard BIUs, detectors, load switches, flashers and flash transfer relays.
- Options for:
  - System operation.
  - Interconnect isolation.
  - 4 channels of detection.
  - Isolated pedestrian call.
  - Manual hand switch and cord.
  - Optical preemption interface.

## Description

The CBD-8000 is a highly capable, self contained traffic controller assembly for use in Central Business Districts or other locations where space for the traffic cabinet is limited.

The CBD-8000 controller and back-panel assembly only requires a space of 28" x 15.25" x 14" (H x W x D) and easily fits in an industry standard 2B cabinet with dimensions of 34" x 18" x 15" (H x W x D).

The CBD-8000 was designed as an actuated replacement for existing, less capable, pretimed traffic control equipment, but it is equally suited for new installations. The 18-signal circuitry will control up to 8 load switches for two-, three- and some four-phase intersections. Offset interrupter interconnect ability allows the CBD-8000 to be used in conjunction with older electro-mechanical controllers in hardwired coordinated systems.

A major feature of the CBD-8000 is that it offers the same functionality, interconnectability, programming, and front panel controls as Econolite's top-of-the-line ASC/2 controller. It offers

the same keypad with function keys, 16-line by programming with context sensitive help. If agency personnel already know how to program the ASC/2, this knowledge will be directly applicable to the CBD-8000.

Another major feature of the CBD-8000 is that it offers all of the functional, safety and diagnostic advantages of TS2 Type 1 operation, where cabinet components communicate via a high-speed SDLC serial data bus. The CBD-8000 utilizes TS2 Bus Interface Units (BIUs), detectors, load switches and flash transfer relays for reliable performance in challenging electrical environments, while reducing inventory requirements for agencies that have already adopted the TS2 Standard. A special rack-mount, 8-channel, TS2 style Malfunction Management Unit (MMU) provides exceptional operating safety and cabinet level diagnostics. Options are available as simple bolt-on features. They may be part of the initial order or be added later as the need arises.



The basic CBD-8000 controller assembly includes the controller, backpanel, power panel, field wiring interface panel, police panel (including signal ON/OFF, and AUTO/FLASH switches), auxiliary panel (including controller ON/OFF, AUTO/FLASH, and STOP TIME/AUTO switches), a cabinet-level power supply and 8-channel MMU. Conversion of the CBD-8000 to an operating traffic cabinet requires only the addition of load switches, flash transfer relays, flasher, detectors and the cabinet itself.

## Ordering Guide

CBD-80UV-W-X-YY-Z

### U: Telemetry option

- 0 = No telemetry
- 1 = FSK telemetry<sup>1</sup>
- 2 = RS-232 telemetry
- 3 = 1200 bps FSK modem (2-wire)

### V: Data Module

- 0 = Standard 8K module
- 1 = Expanded 32K data module

### W: Humiseal coating

0 = No Humiseal coating

C = Humiseal coating

### X: BIU option

0 = No BIU

1 = 1 BIU<sup>2</sup>

2 = 2 BIU<sup>2</sup>

### Y: Interconnect option<sup>3</sup>

0 = No interconnect panel

I = IIU panel<sup>4</sup>

### Y: Isolation Modules

O = IIU panel only

S = Telemetry suppression module<sup>4</sup>

L = Local 9-wire interconnect

M = Master 9-wire interconnect

### Z: Test Points

0 = No power panel test points

1 = Power panel test points

## Notes:

1. Telemetry option requires interconnect option (Y).
2. One BIU required at a minimum. Second BIU required only if detector diagnostics are required.
3. Required for pedestrian pushbutton, inductive loop inputs and FSK/RS232 telemetry options.
4. Required when telemetry module is used.

