

BCS-2004 Building Control System

Overview

The BCS-2004 building control system is a fully integrated scheduler and intelligent control system designed to control lighting, heating, air-conditioning, signage and other building systems.

The BCS-2004 system helps reduce energy bills by providing a managed approach to power usage ensuring equipment is only active when it is required.

The processing power and local intelligence built into each controller provides a set and forget control system, as it monitors, analyses and controls without further operator intervention. Each controller operates independently making them ideal for small applications while controllers can be networked together for large systems.

The controller also provides a link between your computer and field devices providing centralised management of distributed control systems including X-10/A-10 Powerline carrier devices and Photon4 RS485 devices. A BCS-2004 system can be reconfigured and expanded to meet changing needs.

The controller is configured using the **Building Monitor** application software that offers an intuitive easy to use layout that can be operated by administration staff and office workers as well as operations and technical staff.

Applications

- Retail outlets
- Shopping Centers
- Resort/Hotel/Motel room management
- Timeshare rental units
- Commercial offices
- Conference centres
- Schools and Universities
- Restaurants
- Apartments
- Carparks

Vertical Markets

- Lighting control
- HVAC control
- Emergency lighting management
- Remote control

Hardware Overview

The controller for the BCS-2004 control system is available in a number of models depending on the field bus interface requirement and whether an Ethernet port is required.

Each controller has inbuilt intelligence and capabilities including:

- 16 inputs for pushbuttons, switches, occupancy sensors, PE cells etc.
- 8 outputs to control relays, circuit breakers, lighting, heating, HVAC etc.
- Field bus interface to control 256 distributed field points

Supported interfaces include:

X-10/A-10 Powerline Carrier (PCC),

Photon4 RS485 (PTN4),

Thorn Watt4 RS485 (WT4)

- 100 groups
- 20 holidays
- 10 scenes
- 1 sequence
- Real time clock with automatic daylight savings correction
- Sunrise and sunset events
- 100 timers, timers can be reused by multiple groups
- 100 general scripts (logic statements)
- 16 event-driven input scripts
- 256 event-driven field point scripts
- RS232 Serial interface
- 10/100 Mbps Ethernet interface (Optional)



BM2500-PCC Controller with Ethernet Interface

Optional Hardware

- LCW4-PIR-VS Sensor input card with 4 x RJ12 connectors
- LCW4-4SW Pushbutton/switch input card with 4 x pin connectors

Typical Configuration

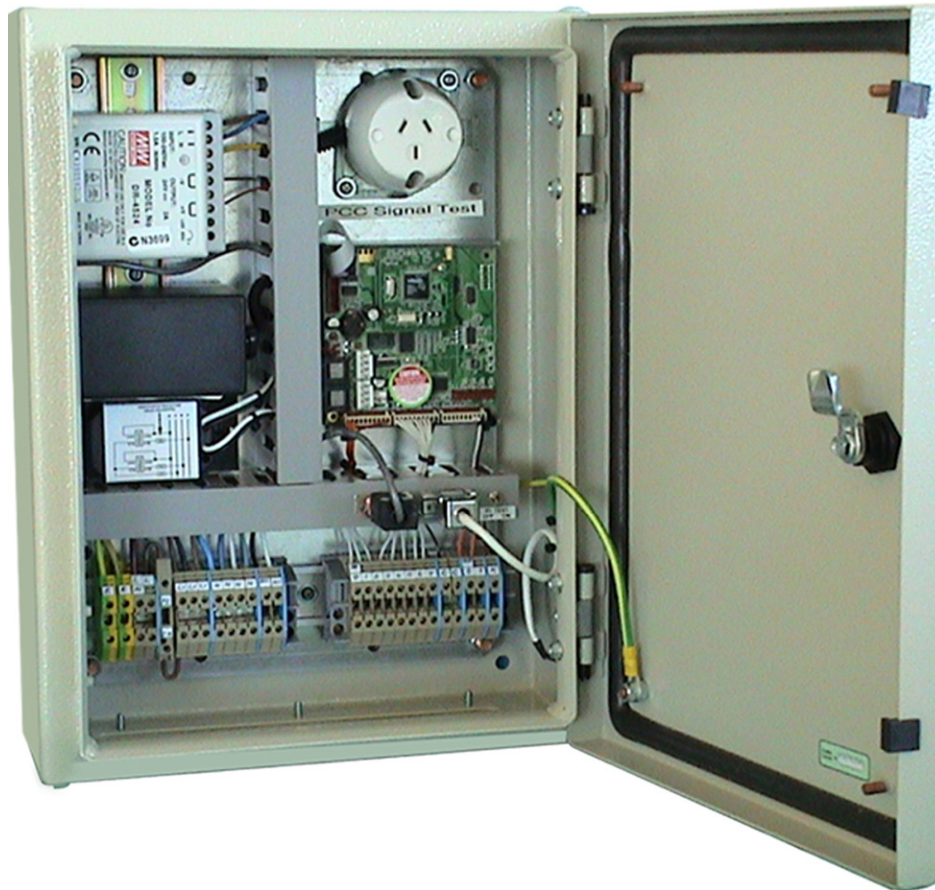


Figure 1: A typical BCS-2004 enclosure using a controller with serial interface
This system also includes a power supply, PCC Powerline Carrier interface and coupler.
The enclosure is (H)400 x (W)300 x (D)150 mm.