

### Datasheet

#### Model BC8002A

#### Advanced Control Unit

BC8002A is an advanced control unit designed with new technology. It is easy for operation and commissioning.

#### Features

- Comply with UL864
- Compatible with BDS A series of field devices
- Large 10.4" LCD with backlight
- Special patented processing arithmetic enhances immunity to environment influences
- Easy operation with Windows-style menu
- Advanced 32-bit ARM-based microprocessor system
- Embedded multitasking operating system provides high operation reliability
- Analogue curve can show real-time changes of parameters of every detection point
- Configuration either via control panel or via PC tool
- Auto-mapping of configuration files makes commissioning simple and easy
- Multiple-window display allows easy view of different kinds of information
- Up to 1000 history records
- Easy upload/download of configuration file through USB port
- Real-time automatic polling to detect trouble
- Free logic programming either through operation panel on site or through PC-tool to meet all kinds of logic requirements of different users
- 2 OC outputs connect to relay – Resistive, 2 Notification Appliance Circuits (1.5 A for each NAC)
- Enhances anti-interference ability of the system against environmental influences
- Using SMT technology and modularity of design allow easy function expansion for future development
- Common grounding trouble supervision (0.1 ohm impedance)
- Advanced power saving technology
- Reliable and steady 24VDC power supply built-in
- Main power/Battery/Battery charger monitoring
- Reliable field wires protection against short, EMI, ESD, EMC



#### Technical Specification

Items	Value
Max. number of connectable line cards	3
Total consumption of detection line	1A
LCD display	640×480 pixel, back light
Nr. of monitored OC outputs (40mA @24VDC)	2
Nr. of monitored inputs	2
Nr. of monitored NAC (1.5A @24VDC)	2
Max. number of history records	1,000
Auto mapping	Yes
Backup battery	12VDC, 40Ah×2
AC power input	120 VAC/60Hz/1.9A 240VAC//50Hz/ 0.9A
Dimensions, in mm (inches)	520×700×225 (20.4×27.5×8.86)
Weight, in: kg (without battery)	22
Operating temperature	0°C ~ +49°C
Storage temperature	-10°C ~ +50°C
Relative humidity	≤93% (32±2°C)
Application environment	Indoor and Dry

#### Diagram

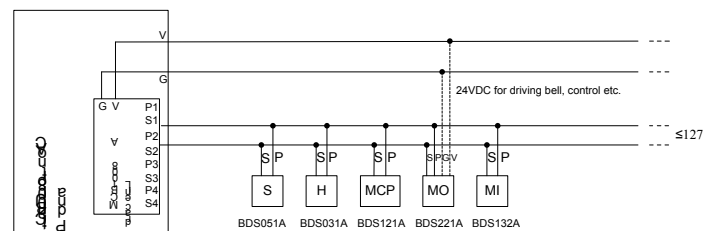


Figure 1 One line connection

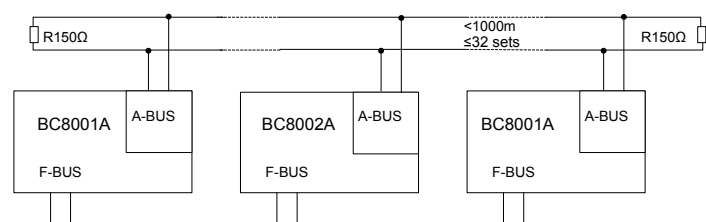


Figure 2 System network connection

#### Order Information

Type	Description	Stock Code
BC8002A-1	Wall-mounted Advanced Control Unit (500 Dev.)	A5Q00022666
BC8002A-2	Wall-mounted Advanced Control Unit (1000 Dev.)	A5Q00022665
BC8002A-3	Wall-mounted Advanced Control Unit (1500 Dev.)	A5Q00020860