



PWD Zone Controller



Red LED blinks during Emergency

Green LED blinks when FCC Acknowledged

Smart Call Button (with built-in sounder, for holding point)



Over-door Alert Light Sounder & E-Switch (for toilet)

The PWD (person with disabilities) Call System is designed specifically to help the evacuation of a person with disabilities in the shortest possible time after he or she has made an emergency call at the nearest holding area.

All emergency calls are sent to a centralized monitoring panel, PWD Zone Controller (**PZC**), which is usually located remotely in few hundreds or few kilometers away, to alert the guards on duty or even send out SMS messages to alert the guards on patrolling.

Once an emergency call is made, the guard must go to the holding point (calling zone) to rescue the person and clear the call. Call alert cannot be cleared remotely on the monitoring panel. All the important events are logged into the system memory for future reviews. The logged messages indicate when an emergency call was made and when a rescue operation was carried out and completed.

The emergency call button, or Smart Call Button (**SCB**), features built-in alert tone and dual-colour LED indication. This give important feedback, especially to a person with visual or hearing impairment. *This is one of the requirements stated in Singapore BCA's Fire Code for PWD.*

Very simple looped wiring to all the call zones. Call zones can be located more than 300 meters away from PZC when using CAT5/6 grade cable. Further distances can be achieved if low-resistance cable is used.

Key Features of PWD Zone Controller

- Non-volatile memory to store event logs. Standard 160 events, expandable to 4000 events
- 2 programmable relay outputs, to activate external siren and stroke light or sending alert signal to foreign equipment like BAS/BMS.
- Standard 1 comBUS and expandable up to 5 comBUSes.
- A comBUS is a 4-wire, multi-drop serial network bus that supports wiring distance up to > 300m (CAT5). Very simple looped wiring to all call zones.
- Each comBUS supports up to 16 call zones. A total of up to 80 call zones can be supported.
- Provides 24V/0.5A power to Smart Call Buttons.
- Several expansions ports: serial, I2C, general-purpose IOs, for zone expansion.
- Built-in watchdog timer, enabling system self-recovery and enhancing reliability.
- Highly precise real-time clock with coin cell. Clock drift/year is < 1 min, guaranteed. Hence time adjustment or master timing reference is generally not required.
- Surge and fuse protection
- Dimensions (LxWxD): 165mm x 107 mm x 42mm

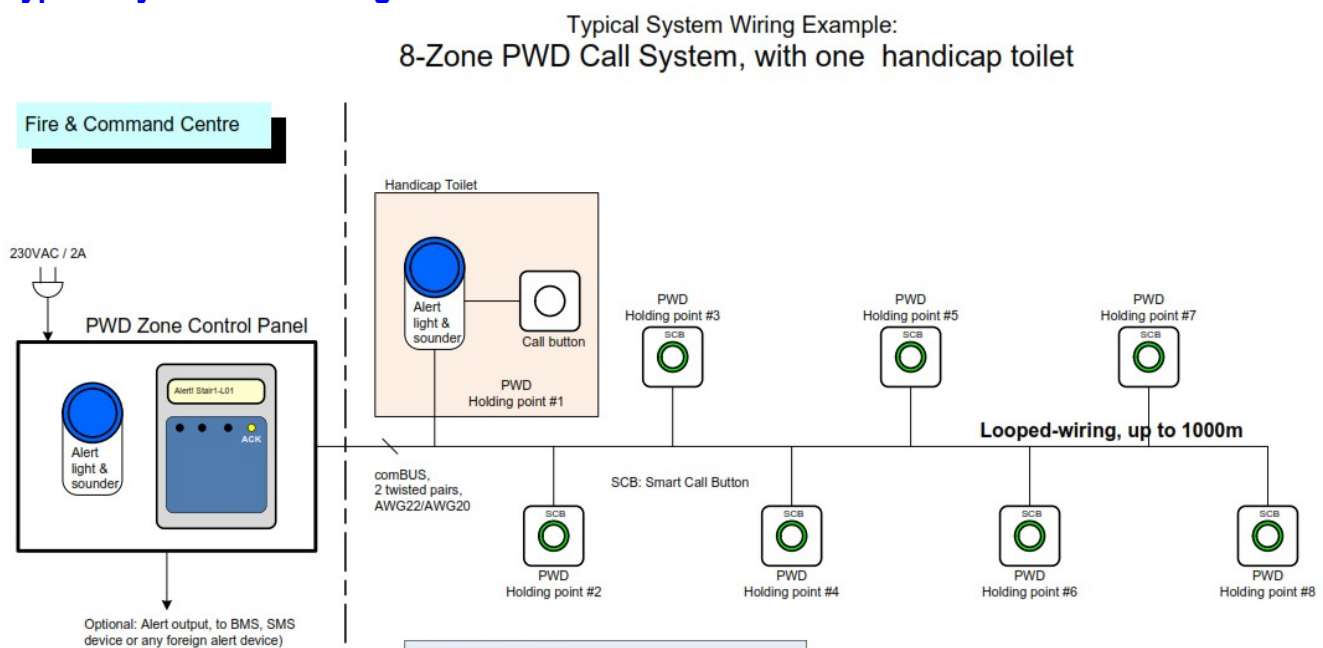
Key Features of Smart Call Button

- Provides audible and visual feedback for person with vision or hearing problem.
- A momentary press on the button would initiate an emergency call.
- A long press on the button, typically 5 sec, would “clear” the call.
- Dual-colour LED (red/green) and built-in buzzer provides concise status feedback
- Simple wiring, a single 4-wire comBus can support up to 16 call zones located more than 300 meters away when using CAT5/6 grade cable. Further distances can be achieved if low-resistance cable is used.
- 1 programmable relay output (optional)
- Very low power consumption, < 7mA in standby and < 25mA in alert mode @ 24V.
- Surge and fuse protection
- Dimensions (LxWxD): 85mm x 85 mm x 35mm, standard UK 1-gang socket size.

Part Numbers and Order Information

- PWD-PZC-20xx : PWD Zone Control Panel, xx is the number of zones: 8/16/32/64/128
- SCB-HPL: Smart Call Button for holding point
- SCB-TLT: Smart Call Button for toilet, includes over-door alert light and sounder

Typical System Block Diagram



Note: Specifications are subjected to changes without notification