

"B" Type Expander Module Programming

Important Information

A newly purchased Expander Module, fitted with firmware V12 or later, may be configured in one of two ways; As a "B" Type or as an "E" Type Expander.

A "B" Type Expander Module can have up to 32 Zone Inputs and up to 32 Auxiliaries with the use of Zone and Auxiliary Expander boards. An "E" Type Expander has 16 Zone Inputs and up to 16 Auxiliaries with the use of Auxiliary Expander Boards.

Compatibility issues exist between earlier versions of Control Module firmware and earlier versions of Expander Module firmware **sold in Australia and New Zealand only**. This is best explained by use of the following table:

Firmware Compatibility

Expander Firmware	DIPswitch Setting	Operation under Control Module Firmware Version 1 (V1)	Operation under Control Module Firmware Version 2 (V2) or later
V11 or earlier	Not selectable	Up to 32 Zones Up to 32 Auxiliaries Type "3" Module - "E" Type	Up to 32 Zones Up to 32 Auxiliaries Type "3" Module - "B" Type
V12 or later	"B" Type	Up to 32 Zones Up to 32 Auxiliaries Type "3" Module - "E" Type	Up to 32 Zones Up to 32 Auxiliaries Type "3" Module - "B" Type
V12 or later	"E" Type	Not Recognised (Unknown Module)	Up to 16 Zones Up to 16 Auxiliaries Type "7" Module - "E" Type

NOTE:

The move to V2 Control Module firmware resulted in the Type "3" Module designator being changed from "E" to "B". An additional Type "7" Module was created for the "E" Type designator.

Module Type Selection

On Expander Modules fitted with V12 firmware or later, a DIPswitch setting on the Expander Module determines whether the module will be a "B" or an "E" Type.

On DIPswitch 1: Sw1 Off = "B" Type (32 Zones)
 Sw1 ON = "E" Type (16 Zones)

Where there is a possibility that an Expander installation, initially requiring no more than 16 Zones, may be expanded to more than 16 Zones at a later date, it is recommended that the Module be made a "B" Type Expander to allow for future expansion.

Siren Operation

Expander Siren numbers control the sirens on both the "B" and "E" type Expanders.

Ie. S0 = Control Module Sirens
 S1 = Sirens on E01 and B01
 S2 = Sirens on E02 and B02 etc.

Reporting

Reporting with most Contact ID maps will treat the Mini Expander, Exp32 and Exp16 as the same. (With the exception of the SIMS II map which identifies all Module Types). This means that care must be taken in a reporting system that the same module number is not used if you want unique reporting.

Eg. B01, B02, E03, B04, M05, E06 etc. will ensure that all zones are reported individually. Installing modules B01, E01 and M01 will mean that only Zones 17 to 32 on Expander B01 will be reported uniquely. Expander 1, Zones 1 to 8 will represent Zones 1 to 8 on all three of the modules and Zones 9 to 16 will represent those Zones on both B01 and E01.

In SIMS II mapping, the following type numbers will apply:

Type 3 = "B" Type Expanders

Type 6 = "M" Type Expanders

Type 7 = "E" Type Expanders

NOTE: "E" and "M" Type Expanders do not report via Securitel.

**Big Expander to
alter: B01**

**B01 Present-002
but not secure**

This screen allows a Big Expander to be selected for programming. Pressing the "ON" key to change modes tells the Installer whether this module is currently in the network. If the module is not in the network it will display the word "Absent" following the Expander number. If the module is present, the Expander number is followed by the words "Present-nnn but not secure", or "Present-nnn and secure", depending on LAN security status. The number (nnn) in the message indicates the number of times the module has failed to send a handshake message to the Control Module since the last LAN Initialisation or LAN Secure operation.

(See "Configuring the Model 3000/Access 4000 LAN" for details of LAN Security)

**B01 Poll
Time: 060 sec**

This screen allows the Installer to specify the maximum time a module can remain out of communication with the Control Module. Only modules in unprotected Areas should be selected with short times. Modules in protected Areas can have times set up to 250 seconds maximum. If too many modules are programmed for short times then this may slow down LAN communications.

Note: Poll Time should not be set to 000.

**B01 LAN
Priority: 0**

Pressing the ON key allows the LAN Priority to be programmed between 0 and 3 for this module. LAN Priority can be used to give certain modules priority over other modules when sending information to the Control Module. Priority 0 is the highest priority and priority 3 is the lowest. For example, if a module was programmed for priority 0 and another module was programmed for priority 1 and both modules were sending information at *exactly the same time*, then the module with priority 0 would be sent first.

When programming small systems the priority of all modules are most commonly set to 0. In larger systems with many Terminals and Zone Expanders, Zone Expanders may be set to Priority 1 and Terminals may be set to priority 0, giving Terminals a faster response than Expanders during heavy LAN traffic.

B01 Battery Test
Time: 000 min

This screen allows the Installer to programme the duration of the Dynamic Battery Test for this module. Dynamic Battery Testing is a feature of Diary Programming. A Diary event may be used to initiate a Battery Test on all Modules within the system. The test is performed on each programmed module in turn. The duration of such a Battery Test is individually programmable from one module to the next for periods ranging from 0 (No test) to 255 minutes. Battery life will be dependent upon current consumption.

Refer to the section of this Manual on “Diary Programming” for further details on Dynamic Battery Testing and recommended Battery Test Times.

Zone Debounce Time

A faster debounce time is available, if desired. This is set by a DIPswitch on the Expander Board and changes the debounce time for all Zones on the Expander from 400ms (default) to 40ms.

This feature has been designed specifically for Lift button feedback. A debounce time of 40 ms on a standard alarm input may produce false alarms.

Refer to the Expander's Installation Guide for further details.

