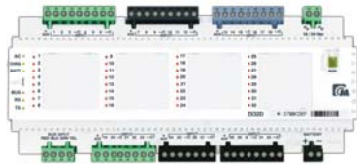




**ZX32D**

**32-Zone Expansion Module V1.0**



Instructions



Printed in Canada - 11/2008

The ZX32D 32-zone Expansion Module connects to the Imperial control panel's Combus and acts as an interface between the control panel and any hardwired detection devices. The ZX32D also includes an external 16/24Vac or 24Vdc power supply input that can be used to power connected devices.

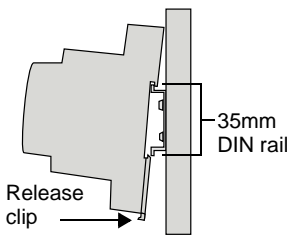
**Compatibility**

EVO48, EVO192
DGP-848, DGP-NE96, EVO96

**Installation**

The ZX32D is a standard 35mm DIN rail module. Using the supplied DIN rail, the ZX32D can be mounted in any location. Alternatively, it can be mounted in a standard DIN rail enclosure. To attach the module, align the top of the DIN rail as shown in Figure 1 and apply pressure to the module until it clicks into place. To remove the ZX32D from a DIN rail, pull the release clip and remove the module.

Figure 1: DIN Rail Mounting



To facilitate installation and servicing, the ZX32D terminals can be detached from the module. Wires can be labeled using the supplied tie wraps.

NOTE: The ZX32D does not support ATZ zone doubling.

**Upgrading the Firmware**

The ZX32D firmware can be upgraded through WinLoad using the CV4USB RS-485/RS-232 Converter. Refer to the firmware upgrade instructions found at: paradox.com - Software - WinLoad - Firmware Upgrade Instructions

**LOC Button**

The ZX32D LOC button is used to enter Test Mode (see page 2).

A Module Locate can be performed using section [4002] (EVO) or [952] (DGP-48 / DGP-848). To end a module locate, press and hold LOC for 2 seconds.

**Power LED Feedback**

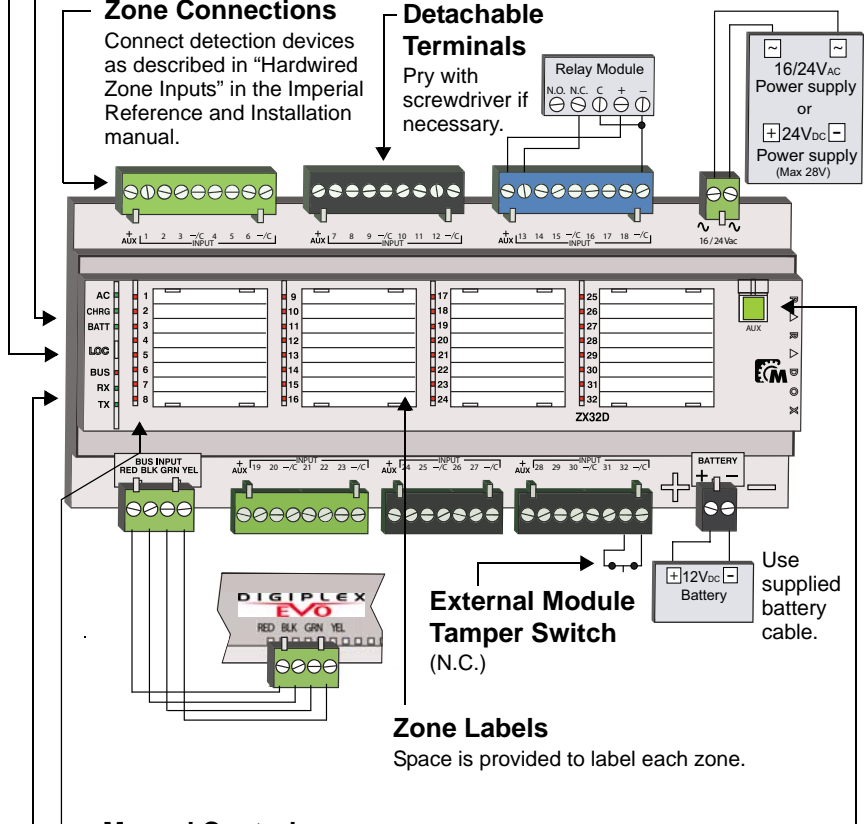
LED	Colour	Condition
AC	green on	AC or DC power is supplied
CHRG	green on	Battery is low / charging
BATT	green on (less than 4 sec.)	Battery test

**Zone Connections**

Connect detection devices as described in "Hardwired Zone Inputs" in the Imperial Reference and Installation manual.

**Detachable Terminals**

Pry with screwdriver if necessary.



**External Module Tamper Switch (N.C.)**

**Zone Labels**

Space is provided to label each zone.

**Manual Controls**

The ZX32D supplies 1A to power security system modules. By pressing the AUX button, the 13.8Vdc auxiliary power supply can be manually activated (LED green) or deactivated (LED off), allowing modules to be powered down without shutting down the control panel. If input power is lost, the AUX buttons will stop functioning. When power is restored, the button will resume its previous state.

**Zone LED Feedback**

LED	Status
off	zone closed
red	zone open
red flash	zone tamper

**Communication LED Feedback**

BUS	RX (from panel)	TX (to panel)	Condition
green	green flash	green flash	OK (panel communication in progress)
red on	off	off	Short on GRN or YEL
red on	off	green	Communication failure / Too many modules on bus
red on	green	green	Bus lines reversed (GRN / YEL)
red flash	off	off	Bus power too low
red flash	green flash	green flash	Locate mode
blue flash	off	off	Firmware upgrade in progress

## Test Mode

To facilitate installation and verify correct wiring, the ZX32D features five Test Modes. In order to use this feature, the ZX32D module must be powered (Test Mode 1 requires a full bus connection). To enter Test Mode, press the LOC button. The ZX32D enters Test Mode 1. Press the LOC button again to enter Test Mode 2, and so on. On the sixth press, the ZX32D will exit Test Mode.

Mode	Feature	LED Feedback	Instructions
Mode 1	Input assignment	RX flashes x 1	Entering Mode 1 illuminates all zones that have already been assigned in the control panel.*
Mode 2	EOL disabled Tamper disabled	RX flashes x 2	Entering Mode 2 sets the ZX32D for: <b>No EOL / No tamper</b> . To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 3	EOL enabled Tamper disabled	RX flashes x 3	Entering Mode 3 sets the ZX32D for: <b>With EOL / No tamper</b> . To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 4	EOL enabled Tamper enabled	RX flashes x 4	Entering Mode 4 sets the ZX32D for: <b>With EOL / With tamper</b> . To verify correct EOL / tamper wiring, open and close the zone and verify that the zone's LED reacts accordingly.
Mode 5	Zone test	RX flashes x 5	Entering Mode 5 illuminates all connected zones. When a zone is triggered, the corresponding zone LED will turn off, indicating correct wiring.

\*This feature will be available on future versions.

## EVO Programming

### General Options

Section [001]		OFF	ON
Option [1]	Tamper Recognition (zone 32)	<input type="checkbox"/> Disabled (default)	<input type="checkbox"/> Enabled
Option [2]	Battery Charge Current	<input type="checkbox"/> 350mA (default)	<input type="checkbox"/> 850 mA

### Zone Input Speed

To calculate the zone input speed, multiply the Base Time Selection by the Time Value. (default = all inputs 600ms)

Base Time Selection - Even-numbered sections	Time Value - Odd-numbered sections
Even-numbered sections represent the base time selection for inputs terminals Z1 to Z32. Using the [▼] and [▲] keys, select a base time* value from 000 to 002. To save and proceed to the next section, Press [ENTER].	Odd-numbered sections represent time value for inputs Z1 to Z32. Enter a 3-digit decimal time value (000 to 255). Multiply by the selected base time.

Zone	Section	Base Time* Time Value	Zone	Section	Base Time* Time Value	Zone	Section	Base Time* Time Value	Zone	Section	Base Time* Time Value
Zone 1	[002]	__/_/___	Zone 9	[018]	__/_/___	Zone 17	[034]	__/_/___	Zone 25	[050]	__/_/___
	[003]	__/_/___		[019]	__/_/___		[035]	__/_/___		[051]	__/_/___
Zone 2	[004]	__/_/___	Zone 10	[020]	__/_/___	Zone 18	[036]	__/_/___	Zone 26	[052]	__/_/___
	[005]	__/_/___		[021]	__/_/___		[037]	__/_/___		[053]	__/_/___
Zone 3	[006]	__/_/___	Zone 11	[022]	__/_/___	Zone 19	[038]	__/_/___	Zone 27	[054]	__/_/___
	[007]	__/_/___		[023]	__/_/___		[039]	__/_/___		[055]	__/_/___
Zone 4	[008]	__/_/___	Zone 12	[024]	__/_/___	Zone 20	[040]	__/_/___	Zone 28	[056]	__/_/___
	[009]	__/_/___		[025]	__/_/___		[041]	__/_/___		[057]	__/_/___
Zone 5	[010]	__/_/___	Zone 13	[026]	__/_/___	Zone 21	[042]	__/_/___	Zone 29	[058]	__/_/___
	[011]	__/_/___		[027]	__/_/___		[043]	__/_/___		[059]	__/_/___
Zone 6	[012]	__/_/___	Zone 14	[028]	__/_/___	Zone 22	[044]	__/_/___	Zone 30	[060]	__/_/___
	[013]	__/_/___		[029]	__/_/___		[045]	__/_/___		[061]	__/_/___
Zone 7	[014]	__/_/___	Zone 15	[030]	__/_/___	Zone 23	[046]	__/_/___	Zone 31	[062]	__/_/___
	[015]	__/_/___		[031]	__/_/___		[047]	__/_/___		[063]	__/_/___
Zone 8	[016]	__/_/___	Zone 16	[032]	__/_/___	Zone 24	[048]	__/_/___	Zone 32	[064]	__/_/___
	[017]	__/_/___		[033]	__/_/___		[049]	__/_/___		[065]	__/_/___

\*Base Time Selection    000 = Input Speed is X by 30 milliseconds.    001 = Input Speed is X by 1 second.    002 = Input Speed is X by 1 minute.

### AC Fail Report Delay Timer

Section	Data	Description
[066]	__/_/___ (000 to 255) minutes (default = 30)	AC Fail Report Delay
[067]	__/_/___ (000 to 255) minutes (default = 5)	AC Fail Report Delay Restore

## Technical Specifications

Input voltage:	16 to 24 Vac or 24 Vdc
AUX power	12Vdc, 1A maximum
Current consumption:	154mA maximum
Number of zones:	32 standard zone inputs
Operating Temperature	-20°C to 50°C (-4°F to 122°F)

## Warranty

For complete warranty information on this product please refer to the Limited Warranty Statement found on the website [www.paradox.com/terms](http://www.paradox.com/terms). Your use of the Paradox product signifies your acceptance of all warranty terms and conditions.

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