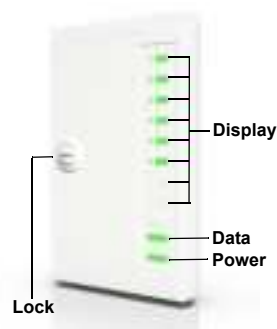


# ZX82

## 8-Zone Input Expansion Module

Installation Manual V1.20 and higher



### Introduction

The ZX82, 8-zone Expansion Module, provides 8 zones input expansion to Paradox panels; connects on the keypad bus of EVO, Spectra, or MG panels. The ZX82 comes with its own tamper-proof enclosure and provides Zone Status LED indicators as well as Power and Data.

### Compatibility

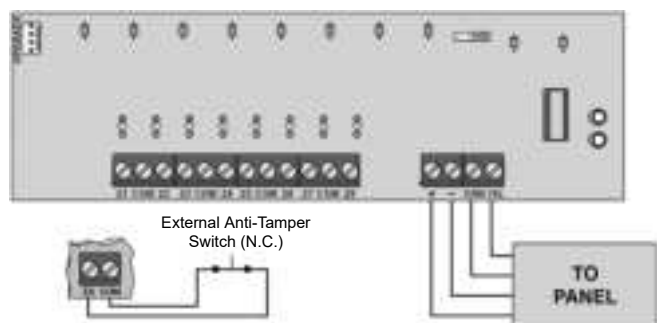
- All Paradox control panels v6.80 or higher
- BabyWare v5.1 and higher
- Infield v5.1 and higher

### Connections

Connect the four bus terminals labeled **+** - **GRN YEL** of the module to the corresponding terminals on the control panel as shown.

To enable anti-tamper switch input on EVO, use input terminal Z8 and enable section **[001]** option **[1]**.

To enable anti-tamper switch input on MG/SP, use input terminal Z1 and enable section **[706]** option **[4]** for panel +1, option **[5]** for panel +9 and option **[6]** for panel +17.



### LED Indicators

| LED                | OFF                                           | ON                                                  |
|--------------------|-----------------------------------------------|-----------------------------------------------------|
| POWER              | OFF                                           | OK (10.5V to 16V)                                   |
| RX / TX            | No clock or data exchange                     | Clock and data OK                                   |
| ZONE1 to ZONE8*    | Zone Closed                                   | Zone Opened / Tamper                                |
| ATZ Enabled on EVO |                                               |                                                     |
| ZONE1 to ZONE8     | Both zones connected to this input are Closed | Any Zone connected to this input is Opened / Tamper |

\*If control panel has an AC Loss all LEDs are turned off.

### Programming EVO

1. Enter section **[4003]**.
2. Enter the eight-digit module serial number.
3. Enter the three-digit module section number.

### Module Tamper on Input-8

Section **001** - Bit 1, **0** = Disabled, **1** = Enabled

Note: If this option is enable the on-board tamper is disabled.

### Input Speed (Base Time Selection)\*

**[002]-[016]** Even Numbered

(Default = all inputs @ 600ms)

Even numbered sections represent inputs terminals Z1 to Z8. Using **[▼]** and **[▲]** keys. Select a Base Time value from 000 to 002. Press **[ENTER]**.

000= Input Speed is X by 15 milliseconds

001= Input Speed is X by 1 second

002= Input Speed is X by 1 minute

### Input Speed (Time Value)\*

**[003]-[017]** Odd Numbered

Odd numbered sections represent inputs Z1 to Z8. Enter a 3-digit decimal time value (000 to 255). Multiply by the Input Speed.

\* Can only be programmed via a keypad.

### EOL/ATZ per Zone Input

Section **401** - Zone Input Options

| Zone1 / Zone2     | Zone3 / Zone4     | Zone5 / Zone6     | Zone7 / Zone8     |
|-------------------|-------------------|-------------------|-------------------|
| $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ |

### Zone Input Options Individual Settings

| OPTION   | DESCRIPTION                                                    |
|----------|----------------------------------------------------------------|
| <b>0</b> | System default; zone will follow global panel settings for EOL |
| <b>1</b> | EOL / ATZ disabled                                             |
| <b>2</b> | EOL enabled / ATZ disabled                                     |
| <b>3</b> | EOL disabled / ATZ enabled                                     |
| <b>4</b> | EOL / ATZ enabled                                              |

### EOL Resistor Value Selection

Section **402** - Zone Input Options

| Zone1 / Zone2     | Zone 3 / Zone4    | Zone5 / Zone6     | Zone7 / Zone8     |
|-------------------|-------------------|-------------------|-------------------|
| $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ | $\frac{-}{(0/0)}$ |

## Zone Input Options Individual Settings

| OPTION | EOL Value | Zone Value |
|--------|-----------|------------|
| 0      | 1K        | 1K         |
| 1      | 2K2       | 1K5        |
| 2      | 3K3       | 3K3        |
| 3      | 4K7       | 4K7        |
| 4      | 4K7       | 6K8        |
| 5      | 2K2       | 4K7        |
| 6      | 8K2       | 8K2        |
| 7      | 2K2       | 2K2        |

## Programming MG/SP

1. Enter section [001] - [032].
2. Enter the two-digit zone definition.
3. Assign a partition.
4. Select or deselect zone options.
5. Press Enter.
6. Repeat steps 1 - 5 for remaining zones.

For more information on how to program zones, please refer to the MG/SP Programming Guide.

## Module Tamper on Input-1

### Section 706 - Panel Programming

| Option | Description                    | Off               | ON           |
|--------|--------------------------------|-------------------|--------------|
| 4      | ZX82 ID A (panel +1) Input 1   | <b>Zone input</b> | Tamper input |
| 5      | ZX82 ID B (panel + 9) Input 1  | <b>Zone input</b> | Tamper input |
| 6      | ZX82 ID C (panel + 17) Input 1 | <b>Zone input</b> | Tamper input |

Note: If this option is enable the on-board tamper is disabled.

## MG/SP Jumper Settings (Panel ATZ Off)

| Module #<br>(Jumper) | MG5000 | MG5050 | SP4000 | SP5500 | SP6000 | SP65  | SP7000 |
|----------------------|--------|--------|--------|--------|--------|-------|--------|
| +1                   | 3-10   | 6-13   | 5-12   | 6-13   | 9-16   | 10-17 | 17-24  |
| +2                   | 11-18  | 14-21  | 13-20  | 14-21  | 17-24  | 18-25 | 25-32  |
| +3                   | 19-26  | 22-29  | 21-28  | 22-29  | 25-32  | 26-32 | N/A    |

## MG/SP Jumper Settings (Panel ATZ On)

| Module #<br>(Jumper) | MG5000 | MG5050 | SP4000 | SP5500 | SP6000 | SP65  | SP7000 |
|----------------------|--------|--------|--------|--------|--------|-------|--------|
| +1                   | 5-12   | 11-18  | 9-16   | 11-18  | 17-24  | 19-26 | N/A    |
| +9                   | 13-20  | 19-26  | 17-24  | 19-26  | 25-32  | 27-32 | N/A    |
| +17                  | 21-28  | 27-32  | 25-32  | 27-32  | N/A    | N/A   | N/A    |

## Upgrading Firmware

The ZX82's firmware can be upgraded in Infield via BabyWare using a 307USB Direct Connect Interface.

## Technical Specifications

|                               |                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Input Voltage</b>          | 10.5 to 16 Vdc                                                                                                        |
| <b>Current Consumption</b>    | 100mA MAX all LEDs On                                                                                                 |
| <b>Number of Inputs</b>       | 8 standard zone inputs                                                                                                |
| <b>Operating Temperature</b>  | -20 C to +50 C (-4 F to 122 F)                                                                                        |
| <b>Humidity</b>               | 95% maximum                                                                                                           |
| <b>Dimensions (H x W x D)</b> | 16.5 cm x 10.2 cm x 2.5 cm<br>(6.5 in x 4 in x 1 in)                                                                  |
| <b>Certification*</b>         | CE, EN 50131-3 Security Grade: 3<br>Environmental Class: II<br>Certification Body: Applicia Test and Certification AS |

\* Control Panel shall be certified to EN 50131-6 and used as the power supply for the expansion module. If an external power supply is used, it must be certified for EN 50131-6.

The security grade of the ZX82 is dependent on the security grade of the system where it is installed. The maximum security grade is 3.

### Warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement which can be found on our website: [paradox.com/terms](http://paradox.com/terms) or contact your local distributor. Specifications may change without prior notice.

### Patents

US, Canadian and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd.