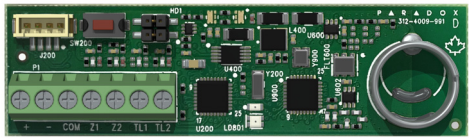
PARADOX™

ZX22

Magellan Wireless 2-Zone Input Expansion Module

Installation Manual V1.0 and higher



Introduction

The ZX22 is the Magellan wireless two-zone input and tamper supervision expansion module with ultra-low power consumption.

Compatibility

- MG5000/MG5050 v4.92, MG5050+ v1.00., MG5075 v1.03 or higher versions
- SP5500/SP6000/SP7000 v7.14 and higher (with an RTX3)
- SP4000/SP65 v5.40 and higher (with an RTX3)
- EVO192 and EVOHD v7.31 and higher (with an RTX3)
- BabyWare v5.4.8 and higher
- InField v5.5.2 and higher

Connections

Connect the **+ -** terminals to 3-15 VDC. Connect the tamper terminals **COM** and **TMP** to an external tamper switch, if available.

Important: Do not remove the double-sided tape, removing might damage electrical components and malfunction the unit.

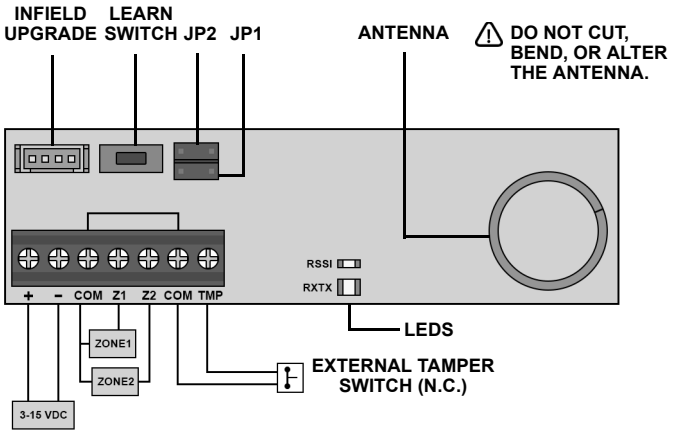


FIGURE 1: ZX22 PCB Layout

NOTE: *If you switch the input voltage value higher or lower, please wait 15 seconds before reconnecting power.*

LED Indicators

LED	OFF
RX (Green) / TX (Red)	Receiving data / Transmitting data
RSSI	For future use / M2 system

NOTE: *The RX/TX LED will stop blinking five minutes after power up to save battery.*

Learn Mode

(Within one minute of power up)

Learn mode allows you to teach the panel the serial numbers of Zone 1 and 2.

Input	Serial Number
Zone 1 Press and release the Learn button once	SN (e.g., 240 000)
Zone 2 Press and release the Learn button twice within one second	SN+1 (e.g., 240 001)

Jumpers

Jumper	Description
JP1 (Z1)	**ON (Normally Closed)** Z1 Closed = “Zone Closed” signal Z1 Open = “Zone Open” signal OFF (Normally Open) Z1 Closed = “Zone Open” signal Z1 Open = “Zone Closed” signal
JP2 (Z2)	**ON (Normally Closed)** Z2 Closed = “Zone Closed” signal Z2 Open = “Zone Open” signal OFF (Normally Open) Z2 Closed = “Zone Open” signal Z2 Open = “Zone Closed” signal

Low Battery

Low battery is monitored every 12 hours. A low battery will be sent when:

- 3 VDC – Low battery will transmit at 2.5 VDC
- 9 VDC – Low battery will transmit at 6.7 VDC
- 12 VDC – Low battery will transmit at 10.5 VDC

Upgrading Firmware

1. Disconnect the ZX22's power. Press the Learn switch on the PCB for one second, this will discharge the unit.
2. Connect the 307USB cable to the Serial port and the other end to the PC's USB.
3. Power up the ZX22 and within one minute, press **Connect** in InField.
4. Open InField and select the required communication settings.
5. Select **Browse** and locate the upgrade file.
6. Press **Start Transfer**. This process may take a few minutes.

Technical Specifications

Power In	3 VDC, 9 VDC, or 12-13.8 VDC
RF Frequency	433 MHz or 868 MHz
Low Battery Indication (supervised every 12 hrs.)	3V: low battery at 2.5V 9V: low battery at 6.7V 12V: low battery at 10.5V
Battery Life/Current	3 years in normal use (10 activations per day) 50 uA (average current consumption)
Number of Inputs	2 zone inputs plus tamper connection
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Humidity	5 to 95%
Dimensions (H x W x D)	2 cm x 7 cm x 1 cm (0.8 in x 2.75 in x 0.4 in)