

# MAGELLAN™

## Two-Way Wireless PGM MG-2WPGM (433/868MHz) V1.1



Instructions  
Instrucciones

**PARADOX®**  
SECURITY SYSTEMS

Printed In Canada 07/2007 www.paradox.com MG2WPGM-T102

### English

The MG-2WPGM is a two-way wireless PGM which also provides one zone input. After assigning the PGM module to a system, the PGM can be programmed to activate and deactivate as detailed in the system's Programming Guide. The Backup Alarm Reporting option allows you to supervise the presence of the Magellan console.

### Location & Mounting

The MG-2WPGM must be installed within 35m (115ft) of the control panel. Before you mount the MG-2WPGM, perform the signal strength tests to ensure optimal performance of the unit.

**Do not cut, bend or alter the antenna. Avoid mounting the PGM module near or on metal as this may affect transmission.**

### Powering the Unit

The unit requires either AC or DC power input. For wire connections, see Figure 1.

AC: 6Vac (500mA) to 16.5Vac (200mA)  
DC: 5Vdc (500mA) to 24Vdc (200mA)

The external power supply used with this module must be of an Approved/Certified type, acceptable to the authorities where the module is installed and used.

### Signal Strength Test

To test the signal strength of the control panel with the MG-2WPGM:

- Place the MG-2WPGM at the installation site.
- Perform a transmission by pressing the anti-tamper switch or by opening the zone that is connected to the PGM.
- Check the RSSI LED to see if it is flashing. To interpret the LED signal, see *Table 1*.

If the signal strength is weak, move the unit to another location and test again. To test the signal strength of the MG-2WPGM at the control panel, see the control panel's *Programming Guide*.

In order to perform a signal strength of the MG-2WPGM through the control panel, the zone and/or PGM must be programmed in the console.

### Jumper Settings

The jumper (JP1) determines the input setting of the zone. Refer to Figure 1 for the location of the jumper.

**JP1 ON** = Normally Closed (N.C.) zone (default)  
**JP1 OFF** = Normally Open (N.O.) zone

**You must set the jumper to match the wiring of the zone input. If the zone input is wired as N.O., the jumper must be OFF. Do not use EOL resistors with universal/zone inputs.**

**Table 1: LED Indicators**

LED	Message
RX	Receiving information
TX	Sending information
RSSI	<b>Indicates signal strength</b> Flash twice Strong signal Flash once Weak signal No flash No signal
Relay	Indicates that the relay is ON

### Back-up Alarm Reporting Option (MG-6130 / MG-6160)

This feature allows you to supervise the presence of the Magellan console. If enabled, a communication attempt between the console and the MG-2WPGM confirms their presence and functionality. If communication is not successful, the MG-2WPGM's relay automatically activates according to Table 2. The relay will deactivate when communications with the console is restored.

**Table 2: Communication Attempts**

Status	Communication Confirmation	Failed attempts before activating relay
Entry delay	Every 15 seconds	3
In alarm	Every 15 seconds	3
Armed	Every 1 minute	3
Standby	Every 18-20 minutes	4

To enable Back-up Alarm Reporting:

- In the console's Installer Quick Menu, select **4-SYSTEM SETUP** ⇒ **7-OUTPUT PROFILE**.
- Select the output you would like to modify or add.
- Using the **Next** key, scroll until you reach the **CONSOLE SUPERV?** option and press **ok**.

### Follow Alarm / Bell Option (MG-6130 / MG-6160)

This feature allows you to set the PGM to activate following an alarm or bell. The MG-2WPGM's relay will deactivate after five minutes or when communication with the Magellan console is reestablished.

In order for this feature to function, the MG-2WPGM must first be programmed to follow an alarm or bell.

- In the console's Installer Quick Menu, select **4-SYSTEM SETUP** ⇒ **7-OUTPUT PROFILE**.
- Select the output you would like to modify or add.
- Using the "next" key, scroll until you reach either the "FOLLOW BELL?" or "ALARM ACTIVATION" option and press **ok**.
- Enable the Follow Alarm/Follow Bell Console Supervision Option in the console (section [297] options [1] to [4]).

### PGM Protection

Every minute that the PGM is activated, the MG-2WPGM will verify that the control panel is intact (unless the PGM is activated for a set length of time). If there is no response from the control panel, the MG-2WPGM will deactivate after 5 minutes unless it receives an alternate command from the control panel.

### 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. Magellan and Spectra SP are trademarks or registered trademarks of Paradox Security Systems Ltd. or its affiliates in Canada, the United States and/or other countries. For the latest information on products approvals, such as UL and CE, please visit [www.paradox.com](http://www.paradox.com). © 2007 Paradox Security Systems Ltd. All rights reserved. Specifications may change without prior notice. One or more of the following US patents may apply: 7046142, 6215399, 6111256, 6104319, 5920259, 5886632, 5721542, 5287111, 5119069, 5077549 and RE39406 and other pending patents may apply. Canadian and international patents may also apply.

Technical Specifications		
Power Input	AC: 6Vac (500mA) to 16.5Vac (200mA) DC: 5Vdc (500mA) to 24Vdc (200mA)	
RF Frequency	MG-2WPGM: 433MHz MG-2WPGM86: 868MHz	
Current Consumption	Relay ON: 45-160mA Relay OFF: 6-20mA	
PGM	1 N.O./N.C. 5A, 28V relay	
Relay's Maximum Voltage	60Vdc/28Vac	
Anti-Tamper Switch	Yes	
Jumper Settings	ON: Normally Closed (N.C.) OFF: Normal Open (N.O.)	
Operating Temperature	0°C to 50°C (32°F to 122°F)	
Range	35m (115ft) with MG-6160 / MG-6130 70m (230ft) with MG5000 / MG5050 / MG-RTX3	
Compatibility	MG-6060 V1.2 or higher MG-6160, MG-6130 MG5000, MG5050	Spectra SP series (used in conjunction with the MG-RTX3 Wireless Expansion Module)
Dimensions	12.5cm x 4.6cm x 2.5cm (4.9in x 1.8in x 1.0in)	
Certification (i.e. CE, UL)	For updated information, visit <a href="http://www.paradox.com">www.paradox.com</a>	

**Figure / Figura 1**



