MCM-140, MCM-140+
Wireless Remote Commander

1. INTRODUCTION

The MCM-140/MCM-140+ is a wireless remote control unit for the PowerMax family control panels. The MCM-140 and MCM-140+ differ in their transmitted ID type and functions, as detailed in the Specifications. The MCM-140/MCM-140+ enables the user to arm/disarm the alarm system, to initiate emergency/fire/panic alarms, to perform one of the AUX (auxiliary) functions (see Note 2 and 3 in Section 7) and to turn lighting devices on and off. The keypad includes an RF transmitter that sends out a differently coded RF signal for each command. For PowerMax, the MCM-140 enables activation of the Aux (Auxiliary), seven home control outputs (X-10), one PGM output, Fire and Emergency functions. Each button needs to be individually defined for the AUX, PGM or X-10 functions at the corresponding points of the define panel and define outputs menu of the control panel.

For PowerMax+, PowerMax Pro, PowerMaxComplete or PowerMaxExpress all the functionality is implemented automatically without using space of the zones.

The main features of the MCM-140/MCM-140+ are:
- Automatic reporting of low battery voltage
- Visual indications by red/green/amber LED.
- Keypad back lighting (selectable).
- Various audible signals sounded by the buzzer in response to specific actions.
- Automatic supervision messages at 60 minute intervals or according to the local standards.
- Long-life 3 year battery life expectancy (for typical user) 3 VDC lithium battery.
- Wall mounting option.
- Friendly programming.

The red LED lights during transmission. The amber LED lights during the programming process (and during transmission if battery voltage is low). The green LED lights upon each keystroke.

2. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Transmitted ID Type and Functions:</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID Type</strong></td>
<td><strong>MCM-140</strong></td>
</tr>
<tr>
<td>PowerCode</td>
<td>Used for Lights T-7, Light 8 (PGM control), Fire and Emergency functions</td>
</tr>
</tbody>
</table>

* Panic alarm is not operative in RTTE compliant products (UK).

**Operating Frequency (MHz):** 315, 433.9 and 868.95, 869.2625 or 915MHz.

**Battery:** 3 VDC, Lithium battery 1450 mA/h, CR123A

**Low Battery Threshold:** 2.7V

**Keypad Buzzer Sound**

<table>
<thead>
<tr>
<th>Description</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short single beep, upon pressing a key</td>
<td>!</td>
</tr>
<tr>
<td>2 short beeps, in the programming process (par. 4.3.4.5)</td>
<td>2 ! 2</td>
</tr>
<tr>
<td>Success (victory) melody</td>
<td>🏆</td>
</tr>
<tr>
<td>Failure beep</td>
<td>🕣</td>
</tr>
</tbody>
</table>

**Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

**Current Consumption:** 10 μA approx. (STBY), 95mA (in transmission, including LED and back light currents)

**Battery Life Expectancy:** 3 years (for typical use)

**Back light illumination:** Selectable on/off

**Dimensions (HxWxD):** 127 x 70 x 24 mm (5 x 2-3/4 x 31/32 in.)

**Operating Temperatures:** 0°C–49 °C (32°F–120°F)

**Weight:** 105g (3.7oz)

**Compliance with Standards:** FCC part 15, IC:1467102181.

The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

The MCM-140/MCM-140+ is compatible with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 and EN50131-1, EN 50131-3, EN 50131-6, Type C Grade 2 Class II. Certified by Applica T&C.

3. MOUNTING AND BATTERY REPLACEMENT

**Figure 2 - Mounting**

- Drill 2 holes in mounting surface, insert wall anchors and fasten the bracket with 2 screws
- Slide the keypad into the bracket

**Figure 3 - Battery Replacement**

- Replace battery (verify proper polarity and close cover)
- Slide out the cover

**Transmitted ID Type and Functions:**

- **ID Type**
  - **MCM-140**
  - **MCM-140+**

- **Functions**
  - Used for Lights T-7, Light 8 (PGM control), Fire and Emergency functions
  - CodeSecure - Used for Home arming, Away arming, Disarming, Aux and Panic (*) functions
  - Home arming, Away arming, Disarming, Aux, Panic (*), Lights 1-7, Duress, Fire and Emergency.
4. PROGRAMMING

4.1 Programming Scope
The following programming actions are possible:
- Setting the master user (user #1) code.
- Setting other user codes (users #2-8).
- Allowing/disabling quick arming of the keypad.
- Muting/reactivating the keypad’s buzzer.
-Enabling/disabling the supervision/latchkey disarming.

4.2 Entering the Programming Mode
The programming mode is accessible with the master code only (1 1 1 1 by default). The "#" key is used to enter and also to exit the programming mode.

Entering the Programming Mode

<table>
<thead>
<tr>
<th>Action</th>
<th>LED indication</th>
<th>Buzzer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>#, [master code]</td>
<td>Amber LED blinks slowly 9,4,3</td>
<td>Off*</td>
</tr>
<tr>
<td>(1111 by default)</td>
<td>during programming</td>
<td>(default ON)</td>
</tr>
</tbody>
</table>

Note
Upon entering the programming mode, the success melody is heard and the amber LED starts blinking. Blinking will stop once you exit from this mode (by pressing "#" again) or upon time out during which no key is pressed. 2 short beeps are heard when the LED stops blinking.

4.3 Changing Master/User Codes
To change the MCM-140/MCM-140+ master and user codes, proceed as follows:

<table>
<thead>
<tr>
<th>Action</th>
<th>LED indication</th>
<th>Buzzer response</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>Amber LED blinks</td>
<td></td>
</tr>
<tr>
<td>[new code]</td>
<td>Amber LED blinks quickly 9,4,3,2</td>
<td>On</td>
</tr>
<tr>
<td>(blinks after success)</td>
<td>(success melody)</td>
<td></td>
</tr>
</tbody>
</table>

Notes
1. Enter user No. (1-8). User No. 1 is defined as the master user.
2. Master/user codes consist of 4-digits. Code "0000" is not valid. It can be used to erase the currently programmed code (when this action is performed, success melody is heard).
3. The PowerMax family control panels user codes and MCM-140/MCM-140+ user codes are different codes.
4. Disarming actions that are performed by users 5-8 are considered as latchkey disarming. The LATCHKEY option should be enabled in PowerMax family control panels.

4.4 Restoring the Default Master Code
If the master code is forgotten, it is possible to recall the factory default master code "1111*. To ensure that this possibility is not misused by unauthorized people, a panic alarm is automatically triggered to the PowerMax family control panels when such an action is performed.

To recall the default master code and prevent a panic alarm, set the PowerMax family control panels to Installer mode (see PowerMax programming guide and PowerMax+, PowerMax Complete and PowerMaxExpress installer guide) and proceed as shown in the following illustration:

4.5 Special Programming Options

Quick arm AWAY ON and HOME ON (default OFF)
Quick arm OFF

Buzzer ON (default ON)
Buzzer OFF

Back lighting ON (default OFF)
Back lighting OFF

Important: In the following processes, the instruction #4 is for MCM-140 only. For MCM-140+ use #5 instead.

Supervision / Low battery reporting ON (default OFF) **
Supervision / Low battery reporting OFF

* To indicate success, the amber LED blinks and the buzzer sounds twice.
** The supervision message is sent once an hour or according to local standards.
*** When there is Low Bat condition, trouble message will be displayed for the zone that was selected for FIRE key.

5. ENROLLING/DELETING MCM-140/MCM-140+ IN POWERMAX

5.1 Enrolling Arming, Disarming, Aux and Panic Functions
To enroll the Home/Away arming, Disarming, Aux and Panic functions, refer to figure 4A.

Note: If you are using the latchkey feature, and keyfob locations (5-8) are programmed with an MCM-140/MCM-140+, then all disarming actions performed by the MCM-140/MCM-140+ will be considered latchkey disarming.

5.2 Enrolling Lights, Fire, and Emergency Functions
The following MCM-140 (not MCM-140+) PowerCode control functions can be enrolled: X-10 devices (1-7), PGM output (activated by 0000 [8]), Fire and Emergency.
6. ENROLLING MCM-140 / MCM-140+ in POWERMAX+ / POWERMAX COMPLETE / POWERMAX EXPRESS

To enroll all the MCM-140/MCM-140+ functions (for details, see specifications), enter the PowerMax+ / PowerMax Pro / PowerMax Complete / PowerMax Express Installer Mode and proceed as shown in the following illustration. To enroll the AUX, X-10, Fire and Emergency functions of the MCM-140 (sent as PowerCode messages) each button need to be enrolled to a separate zone that has selected the required settings.

(First display is READY or NOT READY)

ENROLLING TYPE NEXT

ENROLL WL DEVICE NEXT

ENROLL KEYFOB NEXT

ENROL WL 1WAY KP NEXT

ENROL 2WAY KP NEXT

ENROL SIREN NEXT

ENROL PROX TAG NEXT

1way kp No : [ ]

1way kp No : [ ]

1way kp No : [ ]

1way kp No : [ ]

Black rectangle means that the MCM-140+ No. 5 is already enrolled.

Figure 4B – Enrolling/Deleting a MCM-140 and MCM-140+ functions in PowerMax+ / PowerMax Pro / PowerMax Complete / PowerMax Express Memory

Note: The PowerMax+ buttons (NEXT & OK) are represented in PowerMax Pro, PowerMax Complete and PowerMax Express by [ ] & [ ] buttons, respectively.
7. OPERATION

The following table describes how to activate the various functions.

<table>
<thead>
<tr>
<th>Function</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arming HOME</td>
<td>➡️[4] [red] ➡️[5] [user code] ➡️[1]</td>
</tr>
<tr>
<td>Arming AWAY</td>
<td>➡️[4] [green] ➡️[5] [user code] ➡️[1]</td>
</tr>
<tr>
<td>Disarming</td>
<td>➡️[4] [red] ➡️[5] [user code] ➡️[1]</td>
</tr>
<tr>
<td>X-10 device (1-7) ON</td>
<td>➡️[4] [blue] ➡️[5] ➡️[6] [1-7] ➡️[9]</td>
</tr>
<tr>
<td>X-10 device (1-7) OFF</td>
<td>➡️[4] [red] ➡️[5] ➡️[6] [1-7] ➡️[9]</td>
</tr>
<tr>
<td>Duress (option)</td>
<td>➡️[4] ➡️[5] ➡️[6] [8] ➡️[9]</td>
</tr>
<tr>
<td>Duress (option)</td>
<td>➡️[4] [red] ➡️[5] ➡️[6] [8] ➡️[9]</td>
</tr>
<tr>
<td>Quick arm / HOME</td>
<td>➡️[4] ➡️[5] ➡️[6] [2 sec.] (LED blinks, then red LED during transmission)</td>
</tr>
</tbody>
</table>

Notes

1. Eight user codes are possible (user code # 1 is the master user code). Factory default master code is “1111”. Upon entering a valid code or a valid command, the success (victory) melody is heard and the red LED lights briefly (confirmation indication).

2. Pressing ➡️[4] [red] followed by the desired X-10 device number (1-7) turns on this device (success beeping is heard). Performing these actions again turns this device off. In order for the X-10 device to be turned off when the light key is pressed the second time, the Toggle mode must be selected.

3. The AUX function works just like the [*] key in the keypad. Pressing the Auxiliary Function key ➡️[4] ➡️[5] ➡️[6] ➡️[7] ➡️[8] ➡️[9] (≈ 2 sec.) can initiate the STATUS action (system status announcement), the INSTANT action (entry delay cancellation) or the PGM action (activation of PGM output or X-10 units), depending on prior installer programming. For selecting the desired auxiliary function, refer to the installer guide, belonging to the respective control panel you are using.

8. COMPLIANCE WITH STANDARDS


Frequency Allocations for Wireless Devices in European Countries:

- 433.92 MHz has no restriction in any EU member state.
- 315 MHz is not allowed in any EU member state.
- 868.95 MHz (wide band) is allowed in all EU member states.

WARRANTY

Visonic Limited (the “Manufacturer”) warrants this product only (the “Product”) to the original purchaser only (the “Purchaser”) against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer.

This Warranty is non-transferrable. The condition of the Product has been properly installed and maintained and operated under conditions of normal use in accordance with the Manufacturer’s recommendation and installation guides. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty.

The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

This WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.

If the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, the Manufacturer’s maximum liability (if any) shall not in any case exceed the purchase price of the product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer. When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale. This Warranty is non-transferrable. It is not assignable.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

The Manufacturer shall be under no liability whatsoever arising out of the omission and/or malfunctioning of any telecommunication or electronic equipment or any programs. The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer’s discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstatement costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not covered in this Warranty.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf or enter into any modification, extension or variation of this warranty. Any modification in any way whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, by the manufacture of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise caused by the manufacture of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the laws of the state or country where the Product is supplied shall not apply.

Warning! The user must follow the Manufacturer’s installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste.

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