**Software**: Wireless PIR 6V_9V.CDR

**Page**: 14

**ON**

**3**

**512**

**1**

**9**

**16**

**OFF**

**ON**

**4**

**8**

**16**

**5**

**8**

**128**

**16 BIT CODE (SMART)**

**32**

**10 BIT CODE (10+4)**

**9**

**OFF**

**ON**

**2**

**2**

**OFF**

**256**

**128**

**V**

**4**

**512**

**8**

**12**

**OFF**

**ON**

**1**

**4**

**+128**

**5**

**+32**

**+64**

7x-655 = max number for 16bit code is 65535

8. Programming of the code is now complete until the programming jumper is removed.

7. See 10, 11, 12 for DIPSWITCH settings.

6. Now input the code in a 5 digit decimal format once.

5. JUMPER SETTINGS

- SENSITIVITY: IN = LOW SENSITIVITY OUT = HIGH SENSITIVITY
- PET SELECT: IN = NO PET IMMUNE OUT = PET IMMUNE
- 12V EN: IN = 12V DC SOURCE USED
- PRG: IN = USED WHEN PROGRAMMING 10 OR 16 BIT CODES AND OTHER OPTIONS

4. FRONT

3. REMOVING THE FRONT COVER.

   - To place front cover first hook the top into place (1).
   - Carefully swivel the cover back ensuring that the LED fits properly into the funnel (2).
   - Fasten the screw at the bottom (3).

2. FEATURES:

- Dual element pyrosensor
- RF Immunity
- Tamper circuit
- High-Tech design
- Hermetically sealed pyrosensor
- Insect / corrosion protection on P.C.B.
- Swivel mounting bracket included
- Computerized extensive testing and burn-in
- Ability to transmit both MAMI (10 bit) code and SMART (16 BIT) code
- Zone Supervision
- Battery Low Reporting
- Wireless Tamper Reporting
- Low Power

1. PROGRAMMING THE CODE

   1. Open the wireless passive, apply power
   2. Insert the PRG (programming) jumper
   3. Green LED flashes twice to indicate programming mode
   4. Select which code is needed, 10bit or 16bit (SMART).
   For 10bit, press INC once. For 16bit, press the INC button 3 times.
   5. Press the STEP button. Green LED flashes once.
   6. Now input the code in a 5 digit decimal format.
   For example, code 00234 is entered as follows:
   STEP - INC X2 - INC X3 - INC X4 - INC X5
   (See 8 & 9 for examples for converting binary numbers where the dipswitch is on.
   Note: For a RANDOM code, hold the INC button for a few moments then release.
   7. The green LED now flashes continuously until the programming jumper is removed.
   Programming of the code is now complete.

   Note: Max number for 10bit code is 1023 and max number for 16bit code is 65535

10 BIT CODE:

E.g. For 10 bit code: 0110111100; the table below gives the binary sum of 234 by adding the binary numbers where the dipswitch is on.

<table>
<thead>
<tr>
<th>BIT NUMBER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPITCH</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>CODE</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
<td>01011111</td>
</tr>
<tr>
<td>BINARITY</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>ADD</td>
<td>+2</td>
<td>+8</td>
<td>+32</td>
<td>+64</td>
<td>+128</td>
<td>+2</td>
<td>+8</td>
<td>+32</td>
<td>+64</td>
<td>+128</td>
</tr>
</tbody>
</table>

E.g. Conversion from binary code: Enter the code in digital format (always 5 digits) according to the table.

12V - Any 12V DC source

8. TECHNICAL SPECIFICATIONS

- Supply voltage: 6V - 2 Lithium Ion Batteries
- 9V - 9V Alkaline Battery
- 12V - Any 12V DC source
- Detection current with LED ...............6.0 mA
- Detection current without LED ..........5.5 mA
- Warm-up delay ................................4 min
- Detection range ..................................10 METERS
- Angle ...............................................100 DEGREES
- Detection range with LED ...............6.0 mA
- Frequency .................................403.55MHz(AM)
- Generation ..................................MANUFACTURING AND MINOR INVENTIONS (MAMI)
- TEL +27 (011) 452-4737, FAX +27 (011) 452-4738
- South Africa - e-mail: sales@mami.co.za
- Web site: www.mami.co.za

- Version 2 6V & 9V

- SUPERVISED WIRELESS PASSIVE INFRARED INTRUSION DETECTOR

- INSTALLATION INSTRUCTIONS

- Red

- For 16 bit code: 010101101100; the table below gives the binary sum of 1234 by adding the binary numbers where the dipswitch is on.

- The passive has the ability to report BATTERY LOW as well as TAMPER to the Tracer panel.

- Supervisory check-in signal transmitted every 12hours (By default this is disabled, see 10 to enable this).

- NB 12V jumper needs to be inserted

- Current consumption standby (6V)....8 uA
- Current consumption standby (9V)....10 uA
- RF Immunity
- Dual element pyrosensor
- High-Tech design
- Hermetically sealed pyrosensor
- Insect / corrosion protection on P.C.B.
- Computerized extensive testing and burn-in
- Ability to transmit both MAMI (10 bit) and SMART (16 bit) codes
- Zone Supervision
- Battery Low Reporting
- Wireless Tamper Reporting
- Low Power

- The green LED now flashes continuously until the programming jumper is removed.

- Programming of the code is now complete.

- Note: Max number for 10bit code is 1023 and max number for 16bit code is 65535

- Conversion from binary code: Enter the code in digital format (always 5 digits) according to the table.
- NOTE: The INC button increments the count and the STEP button steps to the next digit.

- E.g. For 10bit code: 010101101100; the table below gives the binary sum of 234 by adding the binary numbers where the dipswitch is on.

- Conversion from binary code: Enter the code in digital format (always 5 digits) according to the table.
- NOTE: The INC button increments the count and the STEP button steps to the next digit.
PLEASE NOTE:

THE WIRELESS PASSIVE WILL ONLY BE ABLE TO TRIGGER AFTER A STARTUP DELAY PERIOD OF 4 MINUTES.

DURING THE NEXT 10 MINUTES THE WIRELESS PASSIVE WILL BE ABLE TO TRIGGER EVERY 30 SECONDS.

AFTER THESE TWO PERIODS, NORMAL OPERATION WILL ALLOW THE WIRELESS PASSIVE TO TRIGGER EVERY 3 MINUTES, PROVIDED THERE IS NO MOVEMENT FOR THIS PERIOD OF TIME.

NOTE:
TO BYPASS THESE PERIODS, HOLD INC BUTTON DOWN WHEN APPLYING POWER, THE RED LED WILL FLASH TWICE

PROGRAMMING CHANNELS FOR GATTO

1. Locate the 8 WAY dipswitch on the board
2. SWITCHES 1-4 are used for CHANNEL selection
See the table below for selecting the channels on the GATTO receiver

<table>
<thead>
<tr>
<th>CHANNEL</th>
<th>BIT 1</th>
<th>BIT 2</th>
<th>BIT 3</th>
<th>BIT 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>07</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>08</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

PROGRAMMING CHECK-IN (12HOURS)

1. Insert Programming jumper
2. Press INC 4 times then STEP
3. Then pressing the INC toggles between enabling and disabling check-in (1 flash = disabled, 2 flashes = enabled)
4. Pressing the STEP button saves the option
5. The green LED now flashes continuously until the programming jumper is removed

PROGRAMMING ZONES FOR TRACER

1. Locate the 8 WAY dipswitch on the board
2. SWITCHES 1-4 are used for ZONE selection
See the table below for selecting the zones

<table>
<thead>
<tr>
<th>ZONE</th>
<th>BIT 1</th>
<th>BIT 2</th>
<th>BIT 3</th>
<th>BIT 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>07</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>08</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

OTHER

PRESSING EITHER THE INC BUTTON OR THE STEP BUTTON WILL CAUSE THE DEVICE TO TRANSMIT (WHEN NOT IN PROGRAMMING) THIS IS USEFUL WHEN SELF LEARNING TO THE TRACER PANEL OR GATTO RECEIVER

KEY SW IS FOR INSERTING A KEYSWITCH TO BYPASS PASSIVE DETECTION

PANIC INPUT IS FOR CONNECTING OPTIONAL PANIC SWITCH (N/O) OR DOORMAG (N/O)

CHANGE SW6 TO SEND PANIC OR ZONE ALARM

MOUNTING THE DETECTOR

For practicality a swivel bracket is supplied with each detector for corner, wall or ceiling mounting. The bracket with its “pan & tilt” feature allows for a later final orientation. The bracket can pan ±18° from the centre and tilt ±28° from the horizontal.

PROGRAMMING CHECK-IN (12HOURS)

1. Insert Programming jumper
2. Press INC 4 times then STEP
3. Then pressing the INC toggles between enabling and disabling check-in (1 flash = disabled, 2 flashes = enabled)
4. Pressing the STEP button saves the option
5. The green LED now flashes continuously until the programming jumper is removed