1. DESCRIPTION

PGM-5 (see Figure 1) is an output interface module designed to provide alarm, trouble events and status signals to external devices such as long range wireless monitoring transmitters, CCTV systems, home-automation systems, LED annunciation panels, etc. The PGM-5 provides 5 solid state relay contact outputs and is designed to be used as a plug-in internal add-on module with PowerMax Pro, PowerMaxComplete, PowerMaxExpress, PowerMaster-10 G2, PowerMaster-30 G2 and PowerMaster-33 G2 control panels.

Note: The PGM-5 will be active only if the PGM-5 option was enabled in the factory default of the control panel. For PowerMaster control panels v18 and above, it is required to enable or disable the PGM-5 via the Installer Mode. For detailed instructions, refer to the PowerMaster Installer Guide.

Outputs 1 to 4 provide pre-set signals while output 5 is programmable using DIP switches SW-3 & SW-4 – see Tables 1 & 2.

Table 1 – Output Definitions

<table>
<thead>
<tr>
<th>Output</th>
<th>Event Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUT 1</td>
<td>Burglar &amp; 24Hr audible alarm (Bell time duration). Tamper &amp; 24 Hr silent (2 sec. pulse)</td>
</tr>
<tr>
<td>OUT 2</td>
<td>Panic (2 sec. pulse)</td>
</tr>
<tr>
<td>OUT 3</td>
<td>Fire (Bell time duration).</td>
</tr>
<tr>
<td>OUT 4</td>
<td>Arm / Disarm (actual status of the panel)</td>
</tr>
<tr>
<td>OUT 5</td>
<td>See table 2</td>
</tr>
</tbody>
</table>

Table 2 – OUT 5 Signal Setting

<table>
<thead>
<tr>
<th>SW-4</th>
<th>SW-3</th>
<th>Event Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>General trouble (until restored)</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>General Low battery (until restored)</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>Gas or CO alarm (until restored)</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>AC failure reported (until restored)</td>
</tr>
</tbody>
</table>

The outputs can be set to either normally open (N.O) or normally closed (N.C), according to the specific application, using DIP switches SW-1 (for outputs 1, 2, 3 & 5) and SW-2 for output 4 (Arm/Disarm) – see table 3.

Table 3 – N.O or N.C Outputs Normal State Setting

<table>
<thead>
<tr>
<th>Outputs</th>
<th>Switch Setting</th>
<th>Output Normal State</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUT 1, 2, 3 &amp; 5</td>
<td>SW-1</td>
<td>OFF N.O – Normally Open</td>
</tr>
<tr>
<td>OUT 4</td>
<td>SW-2</td>
<td>ON N.C = Disarm N.O = Arm</td>
</tr>
</tbody>
</table>

Each output will change its state upon occurrence of an event or change of status and will revert to its normal state upon restoral of the event or change of status.

Alarm types:
1. Alarm
2. Panic
3. Fire
4. Arm/disarm
5. Low bat./Gas Co/AC fail./Gen. trbl

Figure 3 displays electrical wiring diagrams where the PGM-5 module is connected to an alarm transmitter and to a LED Annunciation Panel.
2. SPECIFICATIONS

Number of Outputs: 5
Output Type: Solid State Relay – dry contact.
Predefined Output State: N.O. or N.C. programmable (by DIP switch).
Maximum Load Current: 100 mA
Maximum Peak Current: 350 mA @10 ms

- Output Resistance $R_{ON}$: 16Ω max. $@I_L = 100$ mA
- N.O. Leakage Current: <1 μA
- Maximum Load Voltage: 15 V
- Operating Temperatures: 0°C to 50°C (32°F to 122°F)
- Compliance with Standards: EN 50130-4

3. MOUNTING AND WIRING

In the PowerMax Pro, PowerMaxComplete, PowerMaster-30 G2 and PowerMaster-33 G2 control panels, press the PGM-5 module into the marked location (see Figures 4a, 4b and 4e) until a click is heard.

In the PowerMaxExpress and PowerMaster-10 G2 control panels, use the two screws to fasten the PGM-5 module into the marked location, as illustrated in Figure 4c and 4d.

**POWERMAX PRO**

![POWERMAX PRO diagram](image-url)

*It is strongly recommended to route the cable as shown to prevent interference which may occur if routed too close to the control panel's antennas.*

**POWERMAXCOMPLETE**

![POWERMAXCOMPLETE diagram](image-url)

*It is strongly recommended to route the cable as shown to prevent interference which may occur if routed too close to the control panel's antennas.*
Connect one side of the flat cable into the PGM-5 connector and the other side into the PowerMaxExpress BBA connector.

* It is strongly recommended to route the cable as shown to prevent interference which may occur if routed too close to the control panel's antennas.

**Figure 4c – PGM-5 Mounting and Wiring in PowerMaxExpress Control Panel**

**Figure 4d – PGM-5 Mounting and Wiring in PowerMaster-10 G2 Control Panel**

* It is strongly recommended to route the cable as shown to prevent interference which may occur if routed too close to the control panel's antennas.
* It is strongly recommended to route the cable as shown to prevent interference which may occur if routed too close to the control panel's antennas.

**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 absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturer's recommended installation and operational instructions. Products which have become defective for any other reason, according to the Manufacturer's 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 tampered, 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 tampered, or repair by anyone other than the manufacturer, are not covered by this Warranty.

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### Warranty Period

**FOR INFORMATION REGARDING THE RECYCLING OF THIS PRODUCT YOU MUST CONTACT THE COMPANY FROM WHICH YOU ORIGINALLY PURCHASED IT.**

**WARNING:** The user must follow the Manufacturer’s installation and operational instructions including testing of 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.