

Application Notes



1.24 Programmable Outputs (PC1616/1832/1864 V4.2)

Panels:

POWER SERIES (PC1616/1832/1864 V4.2)

Overview:

All PowerSeries control panels can active a negative trigger programmable output called a “PGM”. These PGM’s can trigger garage door openers; activate partition-able sirens, or status lights.

Programming PGMs is a three-step process:

- Wire the PGM
- Program the PGM’s definition
- Program the PGM’s attribute (*Optional*)
- Partition the PGM (*Optional*)

Program Sections:

Section [009] – [011]	PGM’s Definition
Section [501] – [514]	PGM’s Attributes (<i>Optional</i>)
Section [551] – [564]	PGM Partition Options (<i>Optional</i>)

Step 1 – Wiring the PGM

Connect the positive wire (+) of the LED, Relay, etc. to Aux+ and the negative wire (-) to the PGM. PGM1, and PGM3-10 supports up to 50mA of current draw. PGM2 supports up to 300mA of current draw. PGM11-14 supports up to 1000mA of current draw.

Step 2 – Program the PGM 1 – 14 definition

The PGMs will not function until they are programmed. To program the two on-board PGM’s (*PGM1 or PGM2*), program section [009]. To program the PGMs on a PC5208 (*PGM3 thru PGM10*), program section [010]. To program the PGMs on the PC5204 (*PGM11 thru PGM14*), program section [011].

Section [009]	PGM 1 – PGM 2
Section [010]	PGM 3 – PGM 10 (<i>PGMs on a PC5208 Expander</i>)
Section [011]	PGM 11 – PGM 14 (<i>PGMs on a PC5204 Expander</i>)

Step 3 (*Optional*) – Program the PGM Attributes

These Sections are used to customize the operation of the PGM outputs (*Section [501] for PGM 1, Section [502] for PGM 2 etc.*). The available options depend on which PGM output type is programmed. When the PGM Output Options (*Section [009] to [011]*) are programmed, the system will change the PGM Attributes to the default settings. The PGM Attributes will default if a new PGM output option is programmed.

PGM1 Attributes is Section [501]
PGM2 Attributes is Section [502]
PGM3 Attributes is Section [503]
PGM4 Attributes is Section [504]
PGM5 Attributes is Section [505]
PGM6 Attributes is Section [506]
PGM7 Attributes is Section [507]
PGM8 Attributes is Section [508]
PGM9 Attributes is Section [509]

PGM10 Attributes is Section [510]
PGM11 Attributes is Section [511]
PGM12 Attributes is Section [512]
PGM13 Attributes is Section [513]
PGM14 Attributes is Section [514]

- PGM Output Option [01], [03] to [08], [11] to [22], [25],[26], [28], [30], [33], [34]

Option [3] ON: the PGM output will operate normally (*switch to ground when activated*).
OFF: the PGM output will be normally ground and switch to open collector (*open circuit*) when activated.

- PGM Output Option [19] to [22]

Option [3] ON: the PGM output will operate normally (*switch to ground when activated*).
OFF: the PGM output will be normally ground and switch to open collector (*open circuit*) when activated.

Option [4] ON: the PGM output will activate for the duration of the PGM Output Timer when the [*][7][x] command is performed.

OFF: the PGM output will latch until the [*][7][x] command is performed again.

Option [5] ON: a valid user code must be entered after the [*][7][x] command.
OFF: user code is not required.

- PGM Output Option [09]

Option [1] ON: PGM output activates if a Service Required trouble condition is present.

Option [2] ON: PGM output activates if an AC trouble condition is present.

Option [3] ON: PGM output activates if a Telephone Line trouble condition is present.

Option [4] ON: PGM output activates if a Failure to Communicate trouble condition is present.

Option [5] ON: PGM output activates if a Zone Fault condition is present.

Option [6] ON: PGM output activates if a Zone Tamper condition is present.

Option [7] ON: PGM output will activates if a Wireless Low Battery trouble condition is present.

Option [8] ON: PGM output will activates if a Loss of Clock trouble condition is present.

- PGM Output Option [10]

Option [1] ON: PGM output activates if a Burglary Alarm occurs.

Option [2] ON: PGM output activates if a Fire Alarm occurs.

Option [3] ON: PGM output activates if a Panic Alarm occurs.

Option [4] ON: PGM output activates if a Medical Alarm occurs.

Option [5] ON: PGM output activates if a Supervisory Alarm occurs.

Option [6] ON: PGM output activates if a Priority Alarm occurs.

Option [7] ON: PGM output will activates if a 24-Hour Hold-Up Alarm occurs.

Option [8] ON: the PGM output activates for the time programmed for the PGM Output Timer.
OFF: the PGM output will latch until a valid user code is entered.

NOTE: If System Event PGM is programmed to follow the command output timer then all attributes must be enabled.

Step 4 (Optional) – Partition the PGM

PGMs will activate on Partition 1 at default. To have the PGM activate on another partition you will need to disable Partition 1 (option 1) and enable another partition (option 2-8). Enter Section [551] – [564] and toggle options 1-8 to partition the PGM to that partition.

PGM1 Partition Assignment is Section [551]
PGM2 Partition Assignment is Section [552]
PGM3 Partition Assignment is Section [553]
PGM4 Partition Assignment is Section [554]
PGM5 Partition Assignment is Section [555]
PGM6 Partition Assignment is Section [556]
PGM7 Partition Assignment is Section [557]

PGM8 Partition Assignment is Section [558]
PGM9 Partition Assignment is Section [559]
PGM10 Partition Assignment is Section [560]
PGM11 Partition Assignment is Section [561]
PGM12 Partition Assignment is Section [562]
PGM13 Partition Assignment is Section [563]
PGM14 Partition Assignment is Section [564]

Technical Tips:

1. Ensure all the partitions have been enabled in programming section [201].