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 (Optional)
Section [551] – [564] PGM Partition Options (Optional)

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].

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.
• 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]

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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 [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.
Technical Tips:

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