PGM – 'AND' / 'OR' Functionality

NEO HS2016 / HS2032 / HS2064 / HS20128 v1.3

The NEO v1.3 (and older) panels have the ability to support up to 148 PGM's, which can be programmed as one of up to 50 different PGM Types.

All PGM programing in the NEO is accomplished in Sections [007] – [011].

Section [007] – PGM Partition Assignment
- This section allow you to partition the Main Bell output and each of the PGM's into the partition(s) of choice.

Section [008] – PGM Timers Programming
- This section allow you to change the timers of the PGM's between Seconds or Minutes (panel wide) and program the length of the counter (001 to 255) by PGM.

Section [009] - PGM Types
- This section allows you to define the PGM Type for each independent PGM.

Section [010] – PGM Attribute Assignment
- This section allow you to adjust the Attributes for each of the PGM's.

Section [011] – PGM Configuration Options
- This section allow you to assign a:
  - ❖ Zone # to a PGM type: Zone Follower (200)
  - ❖ User # to a PGM type: Prox Used (156)
  - ❖ Partition # to a PGM type: Partition Prox Used (166)
  - ❖ Schedule # to a PGM type: Command Output 1 – 4 (121 – 124)

➢ ***Tech Note:*** PGM1, 3, 4, and 37 - 164 have up to 50mA current draw (12vDC)

PGM2 has up to 300mA current draw (12vDC)

PGM5 – 20 have up to 500mA current draw (12vDC)

Keypad PGM's have up to 50mA current draw (12vDC)

PGM – 'AND' / 'OR' Functionality

Programming Parameters:

Program **PGM37** to follow Zone 1.
Program **PGM38** to follow Zone 9.

Panel Programming:

[ ] = NEO Panel Section / Solid ~ Red Lock light in programming /
{ } = NEO Subsection / Single Flashing ~ Red Lock light in programming /
( ) = Data / Solid ~ Green Check light in programming /

Section [009] PGM Definition Programming

{037} PGM37 (**200**) – Zone Follower
{038} PGM38 (**200**) – Zone Follower

Section [011] PGM Configuration Programming

{037} PGM37 (**001**) – Assigning Zone 01 to PGM37
{038} PGM38 (**009**) – Assigning Zone 09 to PGM38
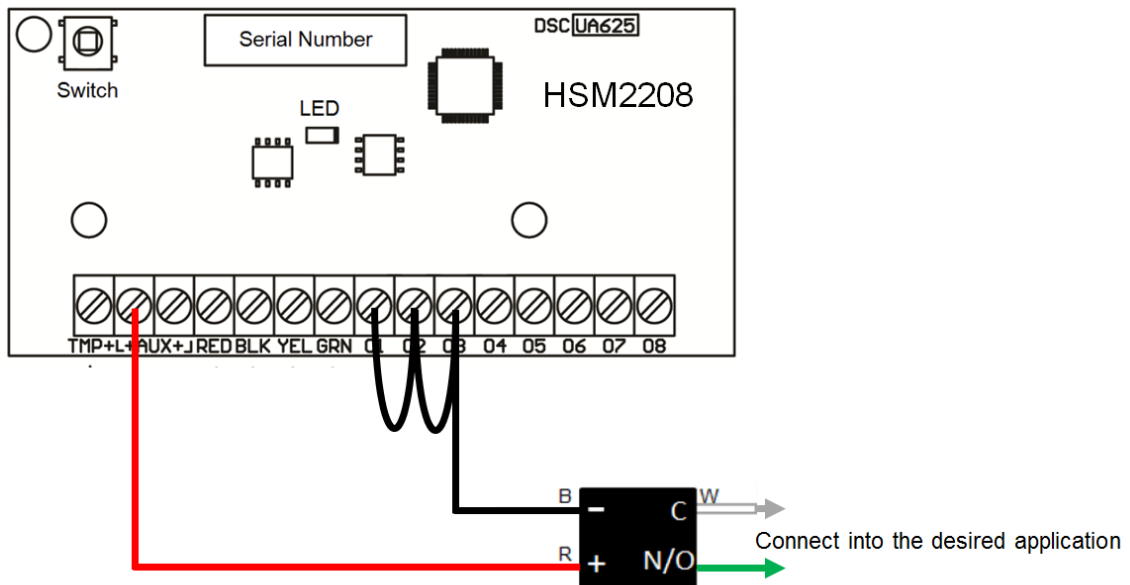
PGM – 'AND' / 'OR' Functionality

Setting up an 'OR' Statement:

PGM's can be setup to work together in an 'OR' statement. This may be desirable if you want to integrate multiple actions together and any one of the actions triggers the event.

For example, the application needs to trigger when one or both zones (Zone 1 and Zone 9) are opened. This application is shown using the HSM2208 Module #1 (PGM37 – PGM44) and one (1) DSC RM-1 relay.

> ➤ **_Tech Tip:_** PGM's defined as (201) – (216) will allow you to program specific zones in the assigned 'bank of 8' zones to a PGM. Therefore, possibly reducing the need for multiple PGM's if the desired zones fall into the specific 'bank of 8' (1 – 8; 9 – 16; 17 – 24; etc.) The zones assigned to the PGM can be modified in Section [010] PGM Attributes.

PGM Wiring – 'OR' Statement

PGM – 'AND' / 'OR' Functionality

Setting up an 'AND' Statement:

PGM's can be setup to work together in an 'AND' statement. This may be desirable if you want to integrate multiple actions together and all of the actions are required to trigger the event.

For example, the application needs to trigger only when both zones (Zone 1 and Zone 9) are opened. This application is shown by using the HSM2208 Module #1 (PGM37 – PGM44) and two (2) DSC RM-1 relays.

PGM Wiring – 'AND' Statement
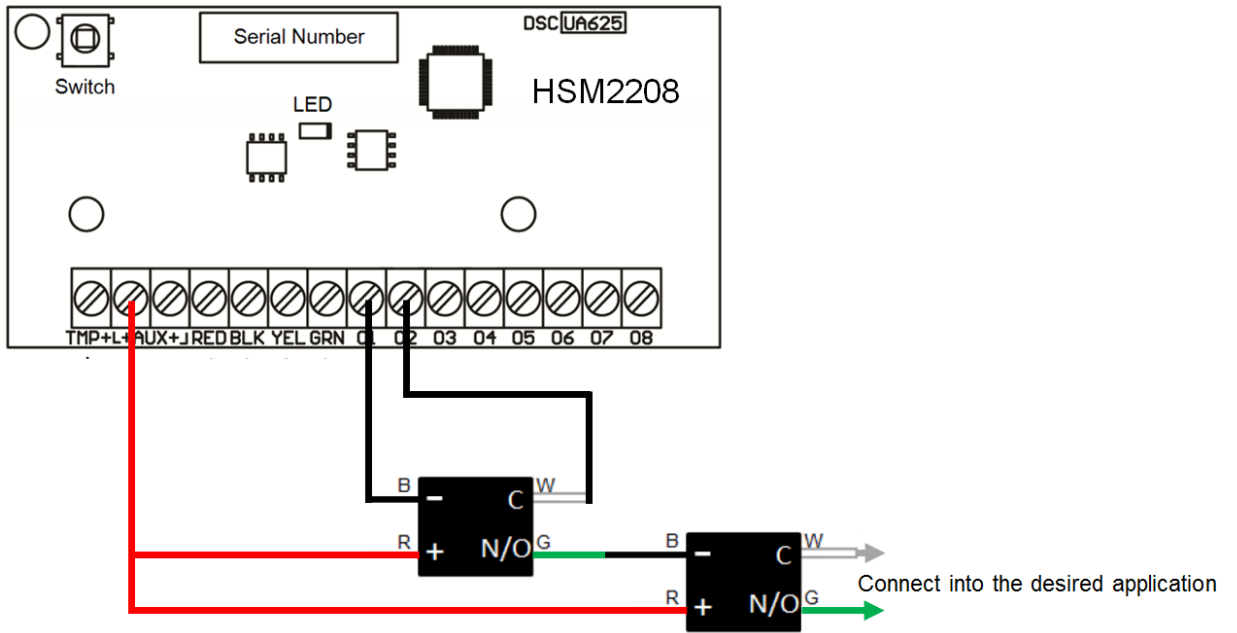
PGM – 'AND' / 'OR' Functionality

PGM Types:

[009] [001] - [164] PGM Types			
100 – Null PGM	122 – Command Output 2	157 – System Tamper	207 – Follower-Zones 49-56
101 – Burg and Fire Bell Follower	123 – Command Output 3	161 – DC Trouble	208 – Follower-Zones 57-64
102 – Delayed Fire / Burg	124 – Command Output 4	165 – Prox Used 166 – Partition Prox Used	209 – Follower-Zones 65-72
103 – Sensor Reset[*][7][2]	129 – Partition Status Alarm Memory	175 – Bell Status and Programming Access Output	210 – Follower-Zones 73-80
104 – 2-Wire Smoke	132 – Holdup Output	176 – Remote Operation	211 – Follower-Zones 81-88
109 – Courtesy Pulse	134 – 24Hr Silent	184 – Open After Alarm	212 – Follower-Zones 89-96
111 – Keypad Buzzer Follow	135 – 24Hr Audible Input	200 – Zone Follower	213 – Follower-Zones 97-104
114 – Ready To Arm	146 – TLM and Alarm	201 – Follower-Zones 1-8	214 – Follower-Zones 105-112
115 – System Armed Status	147 – Kissoff	202 – Follower-Zones 9-16	215 – Follower-Zones 113-120
116 – Away Armed Status	148 – Ground Start	203 – Follower-Zones 17-24	216 – Follower-Zones 120-128
117 – Stay Armed Status	149 – Alt. Communicator	204 – Follower-Zones 25-32	
120 – Away Armed/no Bypass Status	155 – System Trouble	205 – Follower-Zones 33-40	
121 – Command Output 1	156 – Latched System Event	206 – Follower-Zones 41-48	

PGM Number Assignments:

NEO Panel: PGM1 - 4

HSM2204 #1:   5 - 8
HSM2204 #2:   9 - 12
HSM2204 #3:   13 - 16
HSM2204 #4:   17 - 20

HSM2208 #1:   37 - 44
HSM2208 #2:   45 - 52
HSM2208 #3:   53 - 60
HSM2208 #4:   61 - 68
HSM2208 #5:   69 - 76
HSM2208 #6:   77 - 84
HSM2208 #7:   85 - 92
HSM2208 #8:   93 - 100
HSM2208 #9:   101 - 108
HSM2208 #10:   109 - 116
HSM2208 #11:   117 - 124
HSM2208 #12:   125 - 131
HSM2208 #13:   133 - 140
HSM2208 #14:   141 - 148
HSM2208 #15:   149 - 156
HSM2208 #16:   157 - 164