

System design checks to ensure points limit has not been breached when using Evo+ 5000 control panel.

Introduction

This document aims to clarify the difference between the terms ‘points’ and ‘addresses’ when designing and programming systems using the Nittan Evo+ 5000 range of control panels and what this means when considering panel capacity.

Points and Addresses

An address is given to any device connected directly to the loop. This address may in turn contain sub-addresses due to the device having two or more functions. For example, the Nittan EV-P is a single channel smoke detector and uses one address and one point on the control panel, whereas the Nittan EV-PH is a multisensor detector and uses one address and a sub address, this means it uses two points on the control panel.

All Nittan Evo+ 5000 control panels have a limit of 1000 points per processor. This limit applies to the full range of Evo+ 5000 panels, regardless of the number of loops the panel is capable of supporting. This means that although it would never be a problem on the single loop version, it is possible that it could be a concern on the two loop version. However, real consideration needs to be given when using the four loop panel, where the number of points available takes priority over the number of addresses available when looking at the system as a whole.

It is very important, at the design stage, to use the loop calculator tool and in turn use the configuration software as this gives a running total of **points** used as addresses are being added. See Figure 1.

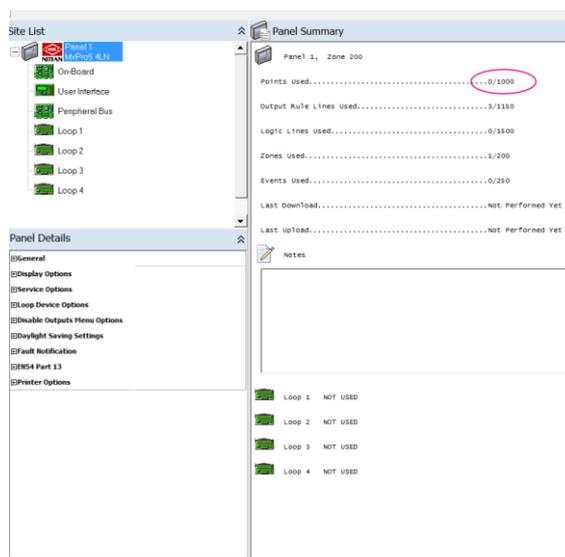


Figure 1

Please see figure 2 below for a table of Nittan devices and the number of points used.

Device Type	Points Used
EV-P	1
EV-DP	1
EV-PH	2
EV-H-A1R	1
EV-H-CS	1
EV-PS	2
EV-DPH-A2R	2
EV-DPH-CS	2
EV-ABS	1
EV-SDR	1
EV-SDR base	1
EV-AV2	2
EV-AV2 base	2
EV-PSBCN	0
EV-HIOP-BCN-SCI	1
EV-HIOP-SDR-SCI	1
EV-HIOP-SB-SCI	1
EV-MCP-RS/WP	1
EV-MCP2-SCI-IP24/IP67	1
EV-IP	2
EV-OP	1
EV-SIO	2
EV-ZMU	2
EV-SCM	1
EV-MINI I/P	1

Figure 2

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