

Document Reference:	PAN001 Panels Pro Configurations and Vortex Voting
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Document applies to:	Panels Pro software

This document provides specific instructions for using Panels Pro software with Vortex systems – particularly in regard to Relay Voting, and saving and loading configurations into a Vortex Panel, or to a P.C. The instructions for saving and backing up configurations are transferable to Gasmaster and Gasmonitor panels, although Vortex screen shots are used for illustration.

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### Section 1. Saving, loading and backing-up configurations.

### Configurations can be saved to three distinct destinations:

- Directly to a control panel (when connected to a panel).
- To Panels Pro's database (local to your P.C. and not transferable).
- To an XML file (which can be copied to other P.Cs for back up and transfer purposes).

When working with **Gasmaster** and **Gasmonitor** configurations, everything is modified and saved from the Configuration screen:

Panels-Pro 1.0.3		
CROWCON	Device View Tools Help	
Devices		SasMonitor
GasMonitor Training		Undo Load Copy Save
		ondo copy our
Notifications	Name	ne 02
Device is in Fault	Units	its VOL
Pages		ge 25.00 *
Logging	Fault Relay Normally On	ay 📝
Summery		Alarm 1 Alarm 2 Alarm 3
Configuration	Direction	n Falling V Falling V Rising V
Calibration	Latching	ng V V V
▲ Status	Normally On	
	Threshold	ld 17.00 👘 19.00 👘 23.00 👘

However, **Vortex** configurations always consist of **two parts** – which MUST be saved/loaded separately:

- The **Configuration** Page (System, Channels and Relay settings).
- The Voting Page (Relay assignment and Voting).



### 1.1 Reading and writing a configuration directly to a control panel:

When Panels-Pro is connected to a control panel, the panel's configuration will be loaded automatically into the workspace, and the panel's serial number will appear at the top left of the screen.

When a change is made to the **Configuration** page the Save to Panel icon will flash. Click this to save the changes to the control panel:

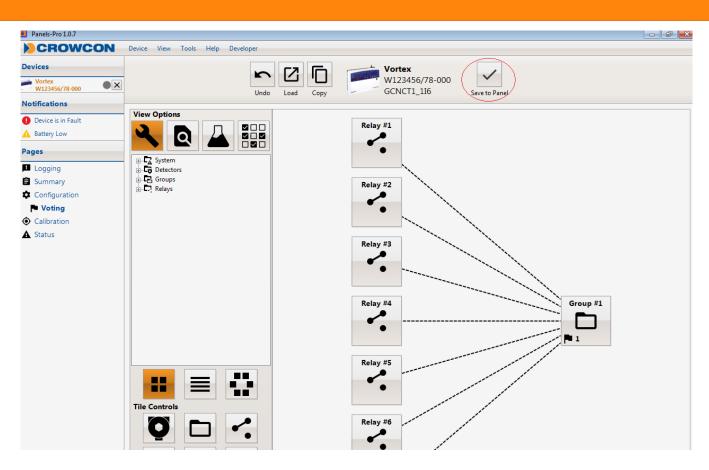
With       Und       Log       With Vit23456/78-000 GCNC11_115         Notifications       -Channel Modules       -Channel Modules       -Relay Modules         Display Module       INDEFINED_REV_ID       1       INDEFINED_REV_ID       2         Battery Low       Bisplay Module       INDEFINED_REV_ID       2       INDEFINED_REV_ID       2         Summary       Configuration       No. of Input       Sector Find       -Display Module       -Display Module         Voting       Occafiguration       No. of Input       -Sector Modules       -Display Module       -Display Module         Status       System       -Hardwaze       -Identity       -Display       -Display Module       Display Module         Voting       Occafiguration       No. of Input       Sector Module Fited       -Display       -Display Module Fited       -Display Module Fited         Disable Internal Sounder       Module Internal Sounder       -Communications       Image: Social Number W12345/78-000       System Name       Image: Social Number W12345/78-000       Image: Social Number W12345/78-	Panels-Pro 1.0.7				
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Divice is in fault       Node Controller (UNDEFINED, REV_ID       1       UNDEFINED, REV_ID         Battery Low       Display Module (UNDEFINED, REV_ID)       2       UNDEFINED, REV_ID       2         Battery Logging       Summary       Configuration       Voting       2       UNDEFINED, REV_ID       2       UNDEFINED, REV_ID         Voting       Calibration       System       -ldentity       -ldentity       -ldentity       -ldentity         No. of Reiny Output       2       Module       File       -ldentity       -ldentity       -lighty Buttons         Voting       Voting       Voting       Voting       -ldentity       -ldentity       -lighty Buttons         No. of Reiny Output       2       Module       File       -ldentity       -lighty Buttons         Voting       Voting       Voting       System       -ldentity       -lighty Buttons         No. of Reiny Output       2       No. of Reiny Output       2       Communications       -communications         Voting       Voting       Voting       Voting       Voting       Voting       Voting       Voting         Stabile       Interpret Ing       Channel 1       Channel 2       Channel 3       Channel 4       Voting       Voting	Notifications			Sure a	
Pages       Display Module (NDEFINED_REV_ID       2 UNDEFINED_REV_ID       2 UNDEFINED_REV_ID         Logging       Summary       Configuration       System	Device is in Fault	Production	- Control Modules	- Channel Modules	- Relay Modules
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Calibration       System       -Hardware       -Identity       -Display         Modules       No. of Input       2       Serial Number       W123456/78-000          Status       Display Module Fitted       System Name       System Name           Power Monitoring Module Fitted       Display Module Fitted             Display Module Fitted       Display Module Fitted             Channels       -Module 1       Channel 2       Channel 3       Channel 4          Enabled       Immaxi 1       02       Xgard IR       LEt test          Type       firmaxi 1       02       Xgard IR       EEL ext          Units       %Vol v       %LEL v       %LEL v       %LEL v          Units       %Vol v       %LEL v       %LEL v       %LEL v          Stablistion       Pault v       Fault v       Fault v       Fault v       Fault v	Configuration		-	-	
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Modules       Image: Channels       Disable Display Buttons         Channels       Object of tited       -Communications         Image: Channel 1       Channel 2       Channel 3         Channels       Object of tited       -Communications         Image: Channel 1       Channel 2       Channel 3         Channels       Object of tited       -Communications         Image: Channel 1       Channel 2       Channel 4         Image: Channel 1       Channel 4       Channel 4         Image: Channel 4       Channel 4       Channel 4         Image: Channel 4       Channel 4       Channel 4         Image: Channel 4       Channel 4       Channel 4	Calibration	System		Identity	– Display –
No. of Relay Output       2       System Name       Ethernet test         Display Module Fitted       -Communications         Disable Internal Sounder       Modbus Address       1         Module 1       -Channel 2       Channel 3         Channels       -Module 1       -         Market Imax 1       O2       Kgard IR         LEL test       Type       Fire         Units       SkVol       %LEL         Suppression       Imax         Interpret Low       Fault       Fault         Reset Time       2 sec(s)       Time         Stabilization       0 sec(s)       Time	▲ Status		No. of Input Modules	Serial Number W123456/78-000	
Channels			No. of Relay Output 2	System Name Ethernet test	Disable Display Buttons
Disable Internal Sounder     Module 1     Channels     -Module 1     Enabled   Imax 1   O2   Xgard IR     Let test   Type   Fire   Gas   Gas   Gas   Gas   Gas   Gas   Suppression   Interpret High   Fault   Fault   Fault   Sublishing   Osec(s)   Osec(s)			Display Module Fitted	- Communications	_
Channels -Module 1 Channel 1 Channel 2 Channel 2 Channel 3 Channel 4 Channel 4 Channel 2 Channel 2 Channel 4 Channel 2 Channel 4 Channel 4 Channel 2 Channel 4 Channel 4 Channel 2 Channel 4 Channel 2 Channel 4 Channel 2 Channel 4 Channel			-	1	
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Channels     Channel 1     Channel 2     Channel 2 <th></th> <th>Channels</th> <th>Module 1</th> <th></th> <th></th>		Channels	Module 1		
Name Irmax 1 Q2 Xgard IR LEL test   Type Fire Gas Gas   Range 0-25.00 0-100.0 0-100.0   Units %Vol %LEL %LEL   Vol %LEL %LEL   Suppression Interpret Low   Interpret High Fault Fault   Reset Time 2 sec(s)   Stabilisation 0 sec(s)		Channels	Channel 1 Chann		
Type Fire Gas Gas   Range 0 - 25.00 0 - 100.0 0 - 100.0   Units %Vol %LEL %LEL   Zero V V   Suppression V V   Interpret Low Fault Fault   Interpret High Fault Fault   Reset Time 2 sec(s)   Stabilisation 0 sec(s)					
Range $0 - 25.00 \checkmark$ $0 - 100.0 \checkmark$ Units $\%Vol \checkmark$ $\%LEL \checkmark$ Zero $\checkmark$ $\checkmark$ Suppression $\checkmark$ $\checkmark$ Interpret LowFault ✓Fault ✓Interpret HighFault ✓Fault ✓Reset Time $2 \sec(s)$ $\checkmark$ Stabilisation $0 \sec(s)$ $0 \sec(s)$ $\checkmark$					
Unit %Vol %LEL %LEL Zero Suppression Interpret Low Interpret High Reset Time Stabilisation 0 sec(s)			Type Fire Gas	Gas Gas	
Zero     Image: Suppression       Suppression     Image: Stabilisation       Interpret Low     Fault       Fault     Fault       Fault     Fault       Stabilisation     0 sec(s)			Range 0 - 25.0	0 🕶 0 - 100.0 💌 0 - 100.0 💌	
Suppression Interpret Low Fault Fa				▼ %LEL ▼ %LEL ▼	
Interpret High Reset Time Stabilisation 0 sec(s)					
Reset Time 2 sec(s)			Interpret Low Fault	▼ Fault ▼ Fault ▼	
Stabilisation Time 0 sec(s)			Interpret High Fault	▼ Fault ▼ Fault ▼	
Stabilisation Time			Reset Time 2 sec(s) 🌻		
			Stabilisation 0 sec(s)		
Alarm One (Open Circuit) 4.0 mA w 17.00 %Vol w 250 %LEL w 20.0 %LEL w			Alarm One 4.0 mA	′ol 📮 25¦0 %LEL 🚔 20.0 %LEL 📮	

### NB (Vortex only): Saving from the Configuration page ONLY saves changes made on this page – it will not save any changes made to Voting: these have to be saved from the Voting page:

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NB (Vortex only): Saving from the Voting page ONLY saves changes made on this page – it will not save any changes made to Vortex Configuration page.



#### **1.2 Reading and writing to the Panels Pro Database:**

When Panels-Pro is NOT connected to a control panel, a configuration can be edited and saved locally to the Panels Pro database. This allows configurations to be prepared in advance and later saved to a control panel. **Configurations saved to the database are NOT easily transferred to other P.C.s so should be considered as non-transferable.** 

Clicking on Tools then Database management shows the location of the database file – this database contains many configurations and other application data:

📰 Database Manage	ement	×
Settings		
Setups	User Database:	
	C:\ProgramData\Crowcon\Panels-Pro\1.0.5\CrowconDevice.mdb	
Reports	Device Database Folder:	
Logs	C:\ProgramData\Crowcon\Databases	
	Available Databases:	
	Device Version	
	GasmasterII V1.0	
	GasmasterIII V1.0	
	=	
	▼	
	Note: If more than one database is available for a device, the latest version will always be use	1.
	ОК	

Clicking on the Save to Panel icon when **not connected** to a control panel, will save the configuration to this database:



Panels-Pro 1.0.7	File View Tools	Help																
Vortex Configuration (14)	×						Und		Load Copy		<b>ortex</b> onfigurat	ion		Save	to Panel			
Pages	System	No. of Relay	1odules (* 1odule Fitted onitoring Me	odule	• • • • •	_	Display — Jump Disat		Alarm isplay Buttons									
	Channels	- Module 1	Channel [7]	1	Channel 🗹	2	Channel 2	3	Channel 4	- Module 2	Channel	5	Channel 2	16	Channe 2	el 7	Channel 🖂	8
		Name	Detector		Detector		Detector		Detector	Name	Detector		Detector		Detector		Detector	
		Туре	Gas	•	Gas		Gas		Gas	Туре	Gas	¥	Gas		Gas		Gas	
		Range	0 - 100.0	•	0 - 100.0	•	0 - 100.0	•	0 - 100.0 🔻	Range	0 - 100.0	•	0 - 100.0	•	0 - 100.0	•	0 - 100.0	•
		Units	%LEL	•	%LEL	•	%LEL	•	%LEL 🔻	Units	%LEL	•	%LEL	•	%LEL	•	%LEL	•
		Zero Suppression	$\square$		$\square$		$\checkmark$			Zero Suppression			$\checkmark$		$\checkmark$		$\checkmark$	
		Interpret Low	Fault	•	Fault	•	Fault	•	Fault 🔹	Interpret Low	Fault	•	Fault	•	Fault	•	Fault	•
		Interpret High	Fault	•	Fault	•	Fault	•	Fault 💌	Interpret High	Fault	•	Fault	•	Fault	•	Fault	•
		Reset Time Stabilisation Time								Reset Time Stabilisation Time								
		Alarm One (Open Circuit)	20.0 %LEL	•	20.0 %LEL	•	20.0 %LEL	•	20.0 %LEL 🌻	Alarm One (Open Circuit)	20.0 %LEL	•	20.0 %LEL	* *	20.0 %LEL	•	20.0 %LEL	-
		Alarm One Direction	Rising	•	Rising	•	Rising	•	Rising 💌	Alarm One Direction	Rising	•	Rising	•	Rising	•	Rising	•
		Alarm Two (Fire)	40.0 %LEL	•	40.0 %LEL	•	40.0 %LEL	•	40.0 %LEL 📮	Alarm Two (Fire)	40.0 %LEL	•	40.0 %LEL	* *	40.0 %LEL	•	40.0 %LEL	•
		Alarm Two Direction	Rising	•	Rising	•	Rising	•	Rising <b>v</b>	Alarm Two Direction	Rising	•	Rising	•	Rising	•	Rising	•
		Alarm Three (Short Circuit)	60.0 %LEL	•	60.0 %LEL	•	60.0 %LEL	•	60.0 %LEL ෫	Alarm Three (Short Circuit)	60.0 %LEL	•	60.0 %LEL	•	60.0 %LEL	•	60.0 %LEL	•
		Alarm Three Direction	Rising	•	Rising	•	Rising	•	Rising 💌	Alarm Three Direction	Rising	•	Rising	•	Rising	•	Rising	•

Notice that under devices, no serial number is listed, as no panel is connected to the system – in the example the configuration will be saved, to the local database, as Configuration (14).

NB (Vortex only): Saving from the Configuration page ONLY saves changes made on this page – it will not save any changes made to Voting: these have to be saved from the Voting page.



### 1.3 Working with XML files:

XML files are transferable files, which can be copied to other P.C.s for back up and transfer purposes. Note that for a Vortex panel, each configuration will consist of two separate files, one for the Configuration page, and one for the Voting page. Gasmaster and Gasmonitor configurations consist of one file which is created from the Configuration page only.

To create the XML files (for back up, or to leave with the customer for instance), the configuration needs to first be created from new, loaded from the Panels Pro database, or downloaded from a control panel (by connecting to the panel).

In the **Configuration** screen, click on the Copy icon, enter a name for your setup, press 'Save to Local File' then choose the file location. This will create a transferable XML file containing the Configuration information.



New Setup	×
Enter a name for your setup.	
Example Config	1
	]
Save To Local File	Save To Database

NB (Vortex only): Copying from the Configuration page ONLY creates a back up of settings on this page – it will not include any settings from the Voting page: these have to be saved from the Voting page:



**Vortex Only:** In the **Voting** screen, click on the Copy icon, enter a name for you setup, then press 'Save to Local File' then choose the file location. This will create a transferable XML file containing the Voting information.



New Setup	×
Enter a name for your setup.	
	7
Example Voting	
Save To Local File	Save To Database

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Once created, the information in the XML files can later be loaded into the Panels Pro workspace, then saved to a control panel:

On the **Configuration** page, press the Load icon, then click on 'Open from File' then select the required configuration file:



				×					
	Sele	ect the setup you wish to op	en.						
Name	Туре	Created On							
Configuration Configuration (2) Configuration (9) Configuration (14) Configuration (15)	Vortex Vortex Vortex Vortex	28/09/2017 11:33		=					
Open From File				ОК					 ;
← → • ↑	> This	PC > Documents > XML	files			۰ō	Search XN	/IL files	Q
Organize 🔻 🛛 N	lew folder								?
					^				
This PC			^	Name	Date	modified	Ту	ype	Size
This PC			^		Date	modified 5/2018 16:		ype PXML File	Size
This PC 3D Objects			^	Name  Example Config  Xample Voting	Date 25/09		50 PI		Size
3D Objects			^	Example Config	Date 25/09	5/2018 16:5	50 PI	PXML File	Size
3D Objects			^	Example Config	Date 25/09	5/2018 16:5	50 PI	PXML File	Size
3D Objects Desktop Documents			^	Example Config	Date 25/09	5/2018 16:5	50 PI	PXML File	Size
<ul> <li>3D Objects</li> <li>Desktop</li> <li>Documents</li> <li>Downloads</li> </ul>			^	Example Config	Date 25/09	5/2018 16:5	50 PI	PXML File	Size
3D Objects Desktop			ł	Example Config	Date 25/09	5/2018 16:5	50 PI	PXML File	Size

The loaded configuration can then be saved to a control panel in the usual way (see 1.1).

### NB (Vortex only): Loading and saving from the Configuration page ONLY affects the settings on this page – it will not include any relay Voting settings: these have to be loaded and saved from the Voting page:

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On the **Voting** page, press the Load icon, then click on 'Open from File' then select the required configuration file:



	Sel	ect the setup you wish to open.	
Name	Туре	Created On	
Configuration	Vortex	28/09/2017 11:33	-
Configuration (2)		28/09/2017 11:35	
2		29/03/2018 14:02	
		25/05/2018 16:00	
Configuration (15)	Vortex	25/05/2018 16:31	Ξ

Select ppxml file								×
$\leftarrow$ $\rightarrow$ $\checkmark$ $\uparrow$ $\square$ $\Rightarrow$ This PC $\Rightarrow$ Documents $\Rightarrow$ XML files			~	Ō	Searc	ch XML files		Q
Organize 🔻 New folder						=== -		?
💻 This PC	^	Name	Date m	nodifie	d	Туре		Size
3D Objects		🦳 Example Config	25/05/2	2018 16	6:50	PPXML File		1
Esktop		Example Voting	25/05/2	2018 17	7:00	PPXML File		1
🗄 Documents	ы.							
🕂 Downloads								
b Music								
E Pictures								
📕 Videos	~	<						>
File <u>n</u> ame: Example Voting				~	Pan	els-Pro XML Files (*	.ppxm	I) ~
						<u>O</u> pen	Cance	I .

The loaded voting configuration can then be saved to a control panel in the usual way (see 1.1).



#### Section 2. Vortex Voting.

The following is a guide to assist with configuring channels and relays via the voting section of Panels Pro.

#### System configuration:

On opening the Panels Pro software, there are 3 options.

- Logging
- Configuration
- > Voting

Choose Configuration; the screen will look the same as Vortex PC.

Configure as per Vortex PC to meet customers' requirements.

System: Channels: Relays.

When complete save this configuration with a name that includes "configuration".

The voting configuration should be saved separately from the Voting screen with the word "voting" in the title. See section 1 for specific instructions about saving, loading and backing-up configurations.

#### Voting configuration example using Groups:

Note: Vortex PC had a limit of 8 relay functions per detector. Panels Pro software has a unique function that facilitates multiple voting for relays via the group tab (127 Groups available). The following configuration example would not be achievable using Vortex PC or Panel Pro 'Classic Mode' due to the 8-function per detector limitation.

On opening the Panels Pro software and select the Voting option



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Under "view options" there are 4 tile options:

- Spanner = configuration mode.
- Overview = overview mode.
- $\blacksquare$  Bottle = simulation mode.
- E Grid= Classic mode. Will not be available once groups have been configured.

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#### **Example customer request:**

> Channel 4 - Relay requirement (colour coded for example purposes)

```
Relay 1 alarm level 1 beacon

Relay 2 alarm level 2 1<sup>st</sup> stage sounder

Relay 3 alarm level 3 2<sup>nd</sup> stage sounder

Relay 4 alarm 1 to PLC

Relay 5 alarm 2 to PLC

Relay 6 alarm 3 to PLC

Relay 7 fault green healthy beacon deactivated

Relay 8 link alarm level 2 to fire system

Relay 9 link alarm level 2 to digital dialler for shift manager notification.
```

### Resolution

5 groups will be required – organised by event/function. The groups will be:

```
Group 1 (Relay 1 & Relay 4)
Group 2 (Relay 2, Relay 5 and Relay 8)
Group 3 (Relay 3 and Relay 6)
Group 4 (Relay 7)
Group 5 (Relay 9)
```

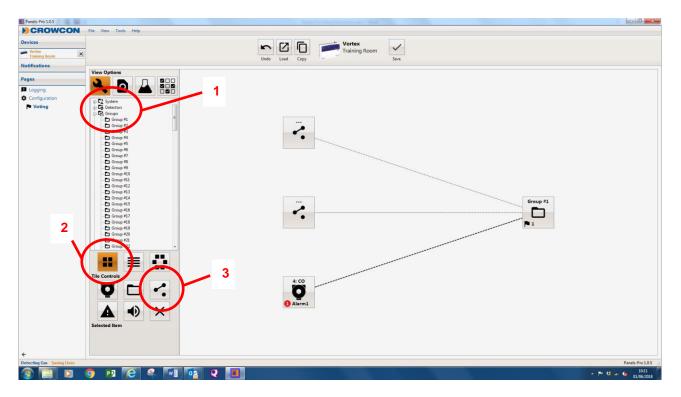
(NOTE: Once groups have been configured, Classic mode is no longer available).



### Group 1 (Relay 1 & Relay 4)

Click on spanner.

- 1: Select Group #1.
- 2: Select Add a Detector from Tile Controls.
- 3: Select Add a Relay twice to add two relays.



Right click on the detector and change to Detector 4.

Right click on the detector again and under trigger select Alarm 1.

Right click the top relay, select 'Change Relay' and select Relay 1.

Right click the bottom relay, select 'Change Relay' and select Relay 4.

Click on Save to save the configuration.

Your screen will look like the above screen-shot.

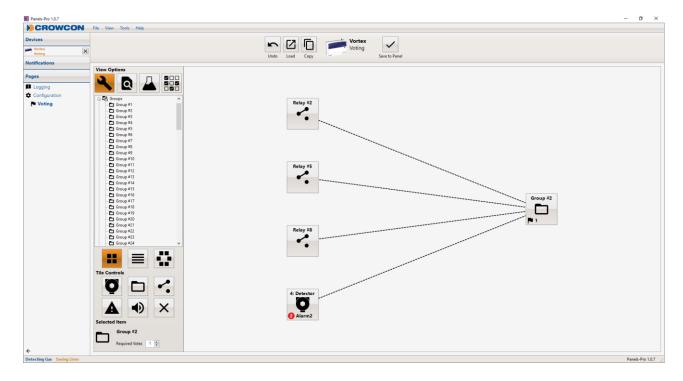
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### Group 2 (Relay 2, Relay 5 and Relay 8)

Click on spanner.

- A: Select Group #2.
- B: Select Add a Detector from Tile Controls.
- C: Select Add a Relay thrice to add three relays.



Right click on the detector and change the detector to detector 4. Right click on the detector again and under trigger select Alarm 2. Right click the top relay, select 'Change Relay' and select Relay 2. Right click the centre relay, select 'Change Relay' and select Relay 5. Right click the bottom relay, select 'Change Relay' and select Relay 8. Click on Save to save the configuration.

Your screen will look like the above screenshot.

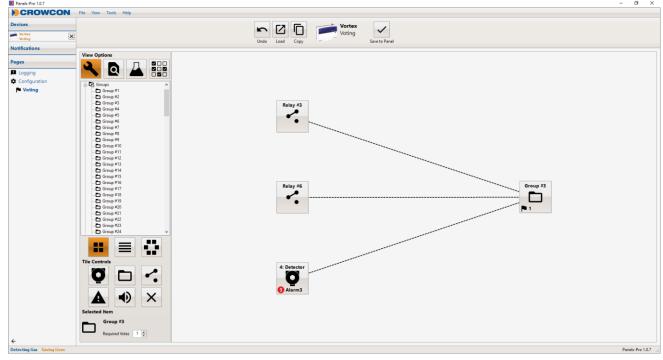
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### Group 3 (Relay 3 and Relay 6)

Click on spanner.

- A: Select Group #3.
- B: Select Add a Detector from Tile Controls.
- C: Select Add a Relay twice to add two relays.



Right click on the detector and change the detector to detector 4. Right click on the detector again and under trigger select Alarm 3. Right click the top relay, select 'Change Relay' and select Relay 3. Right click the bottom relay, select 'Change Relay' and select Relay 6. Click on Save to save the configuration.

Your screen will look like the above screen-shot.

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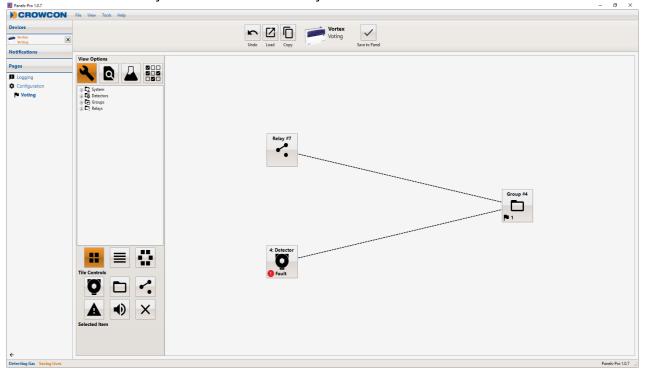
### Group 4 (Relay 7)

Click on spanner.

A: Select Group 4

B: Select Add a Detector from Tile Controls

C: Select Add a Relay twice to add one relay.



Right click on the detector and change the detector to detector 4. Right click on the detector again and under trigger select Fault. Right click the relay, select 'Change Relay' and select Relay 7. Click on Save to save the configuration.

Your screen will look like the above screenshot.

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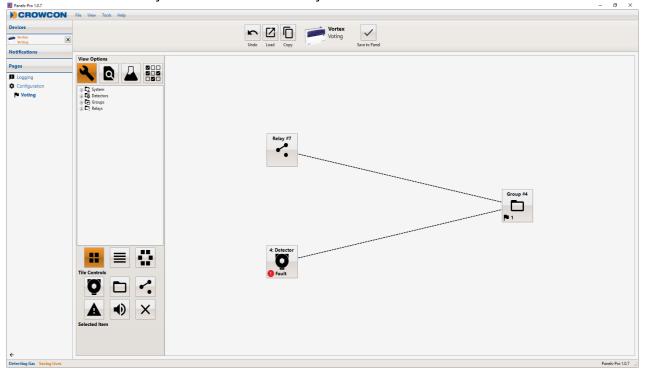
### Group 5 (Relay 9)

Click on spanner.

A: Select Group 5

B: Select Add a Detector from Tile Controls

C: Select Add a Relay twice to add one relay.



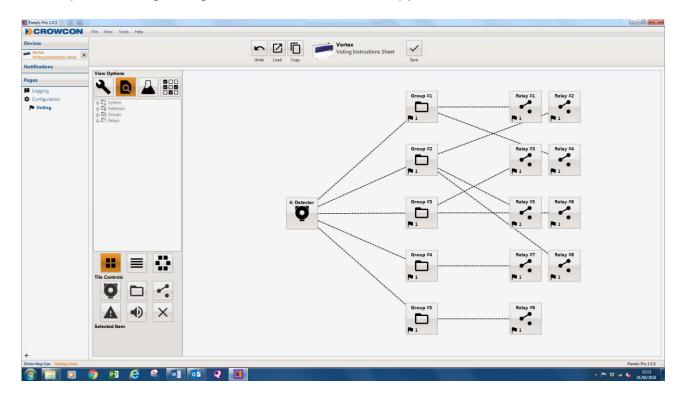
Right click on the detector and change the detector to detector 4. Right click on the detector again and under trigger select Alarm 2. Right click the relay, select 'Change Relay' and select Relay 9. Click on Save to save the configuration.

Your screen will look like the above screenshot.

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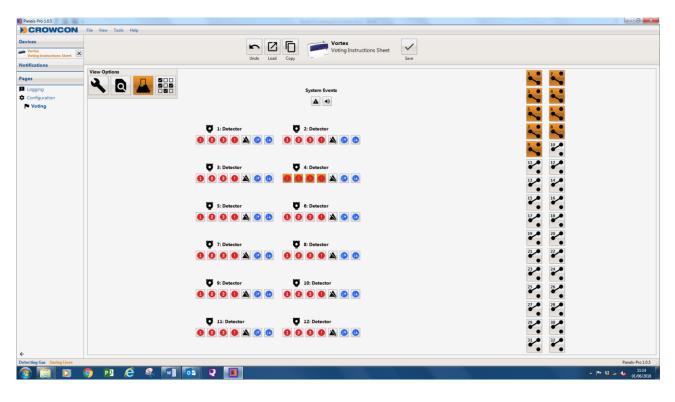
The completed voting configuration for Detector 4 will appear as follows:



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There is also an added viewing screen under the hour glass (note, not for programming). From this screen you will see each detector and associated alarms available also all relays enabled. If you click on an alarm level the associated relays assigned in the group will be highlighted in Orange.



For further information please contact customersupport@crowcon.com +44 (0) 1235 557711