Panasonic

Additional self-study courses

Panasonic terminology

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Terminology tutorial

CIE
Control and Indicating Equipment = Control Unit = CU

Control Panel
User interface, part of the CIE (a part of the front), intended for the building occupier / officer, service personnel, etc., to “communicate” with the Control Unit / the System.

SSD
Site Specific Data = Configuration / Design. Is made in Software program EBLWin. The SSD-file has extension .ebl

Software (SW) file for the CIE
Includes the version, conventions and national regulations for the country, language.

Zone
A larger building is divided into zones, for the fire brigade to easier navigate to the source of the alarm. The Zones are most often following the fire alarm zones of the building.

Fire alarm zone
A specific area of a building separated from other zones by fire walls and doors.

COM loop
Cable/media that connects detectors, Manual call points and other units to the CIE. All the addressable units can be connected. Starts in the Control Unit and returns back to the C.U.

EBL512 (G2)
Control unit (obsolete) - type number 1548,1549,1550

EBL512 G3
Control unit (obsolete) - type number 5000 (main board 5010)

EBL512 G3
Control unit - type number 5000S (main board 5012)

EBLOne
Control unit with one loop - type number 2000 or 2000K (main board 2010)

MMI board
(Man Machine Interface) type number 5011 or 5015. PCB for the LCD on the EBL512 G3.

3312
Base for addressable detector= An addressable detector is plugged in a base, which is connected to a COM loop.

4412X
Base for isolator detector. An addressable detector with isolator is plugged in a base, which is connected to a COM loop. (Type number 4412x)

440
Addressable smoke/multi/heat detector = Address set with address setting tool 4414

440XI
Addressable smoke/multi detector with isolator. Address set with Auto address function, or address setting tool 4414

2324
Base for conventional detector. Connected to zone line input.

4452
Smoke detector (Conventional)

4318
Combination heat detector (Conventional)

Conventional detector
A detector with only two statuses, i.e. normal or fire alarm. A conventional detector is connected to a conventional zone line input.

Nuisance alarms
False or unwanted alarms

EBLWin
PC program used to create and download the SSD in EBL512 G3 unit(s). Can be used during commissioning / maintenance of the EBL512 G3 system (autogenerate COM loop SSD, acknowledge faults, etc.)

EBL Firmware Manager
PC program used to download another / new software version.

Gateway

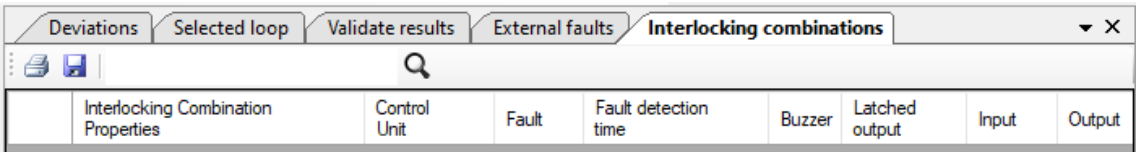
The Gateway is used to get control unit information as well as remote control via a PC (browser) and an intranet / internet. The Gateway is configured via the PC tool EBLWin.

Deviations

When the status in the system differs from the normal. There are, for example, faults, disablements or an open door. A tab with overview of deviations is available in EBLWin.

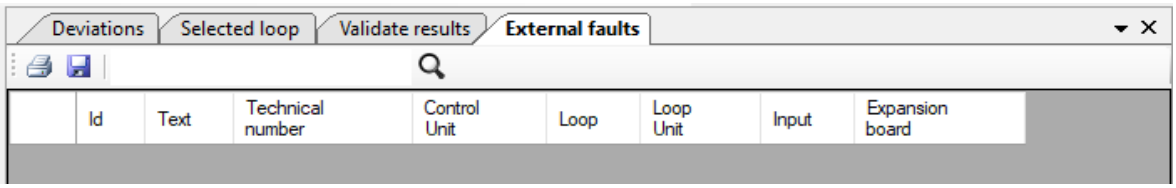
Interlocking

The interlocking function is used to verify that an output really is activated. A tab with overview of all interlocking combinations programmed is available in EBLWin.



External faults

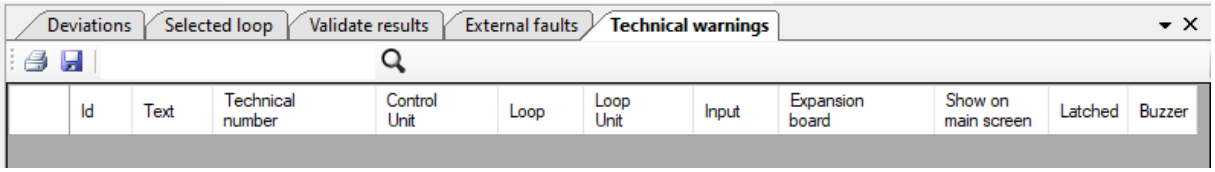
A tab with overview of all External faults is available in EBLWin. This is a list, for the whole system, showing all external faults and their properties. External faults are faults generated from units connected to inputs or outputs in the system. (pic. below)

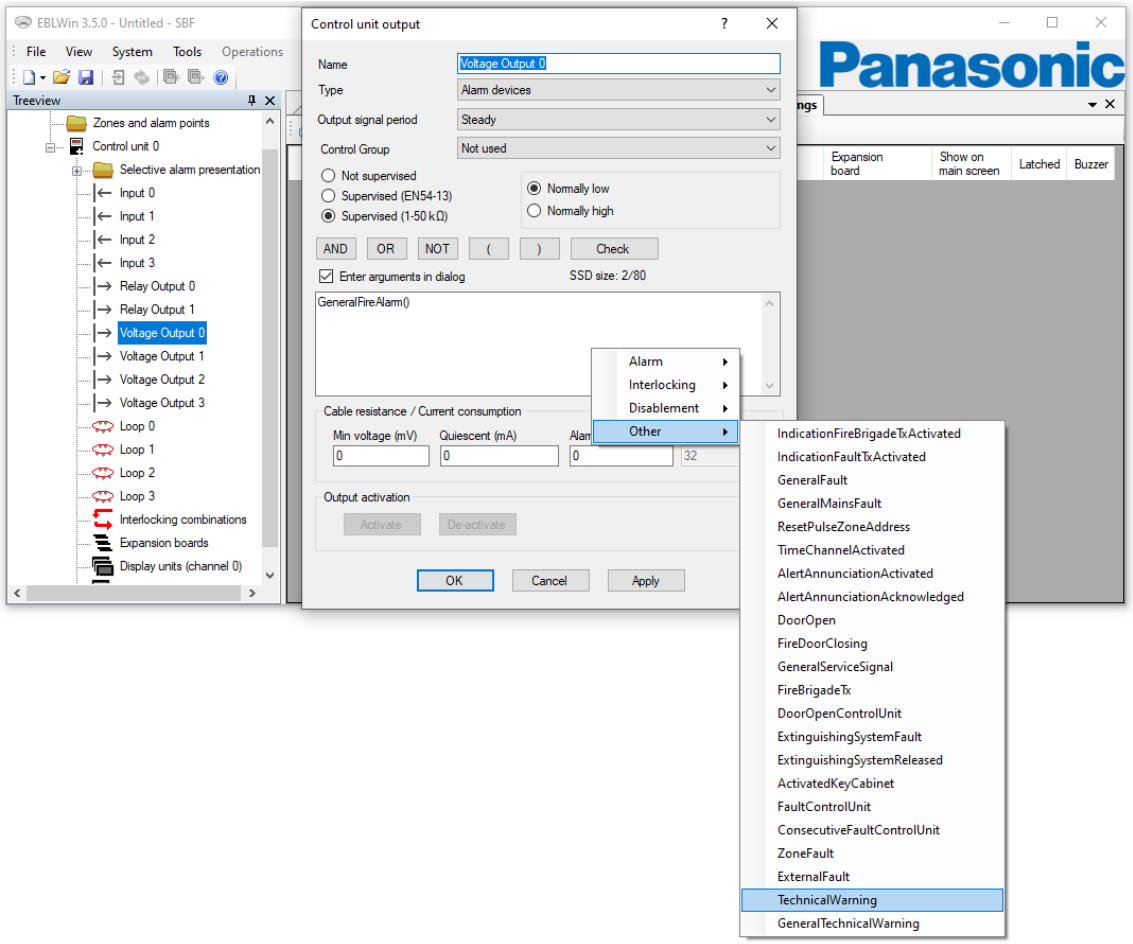


Technical warnings

Programmable for outputs. An output is activated when one or more technical warnings are generated. Indicated by a symbol in the CIE display.

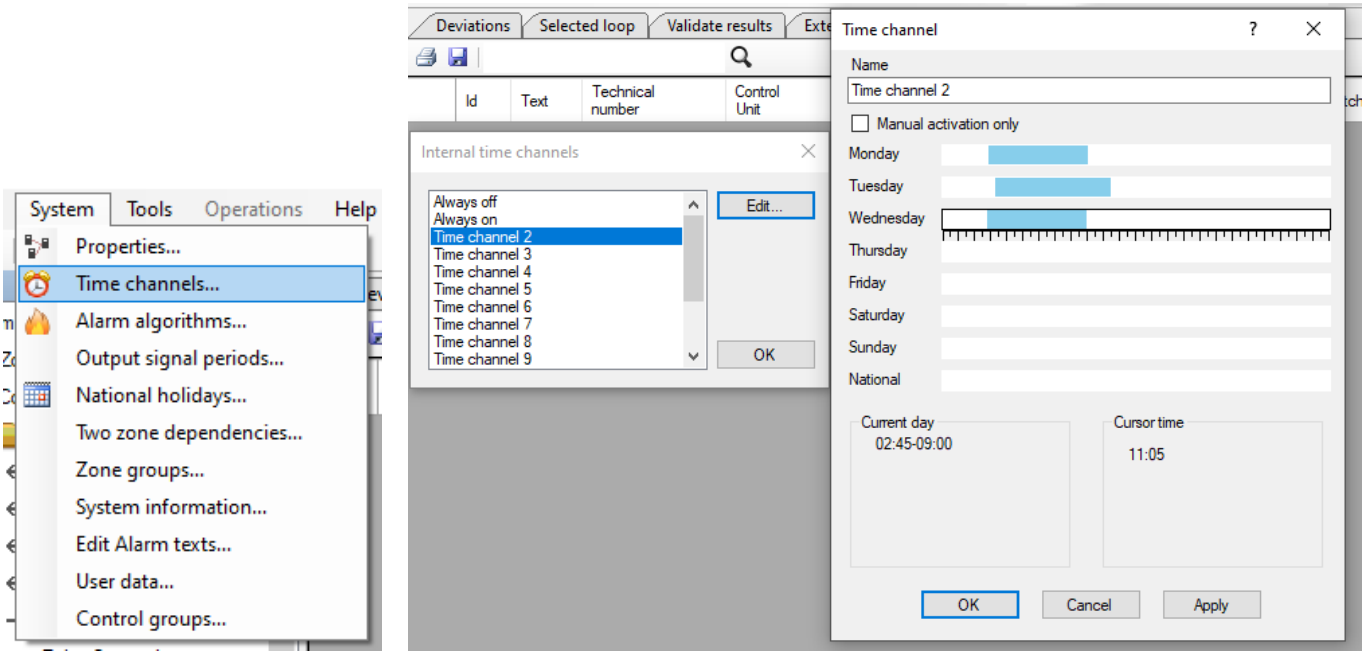
> Technical warning is activated to indicate a fault in EMEX products, for example low battery level.



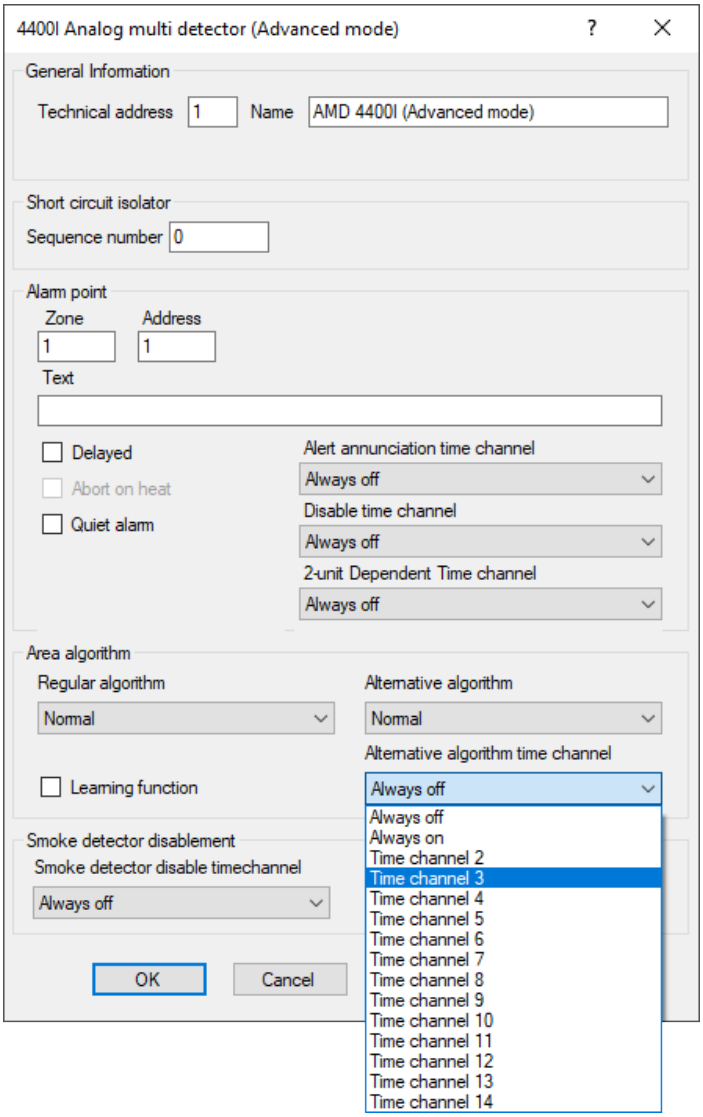


Time channels (Internal Time Channels)

It´s possible to set up to 13 different customises Time channels. This is time schedules, possible to use for activation of different functions between certain times.



Example: You can change sensitivity for a detector during night time, using time channels.

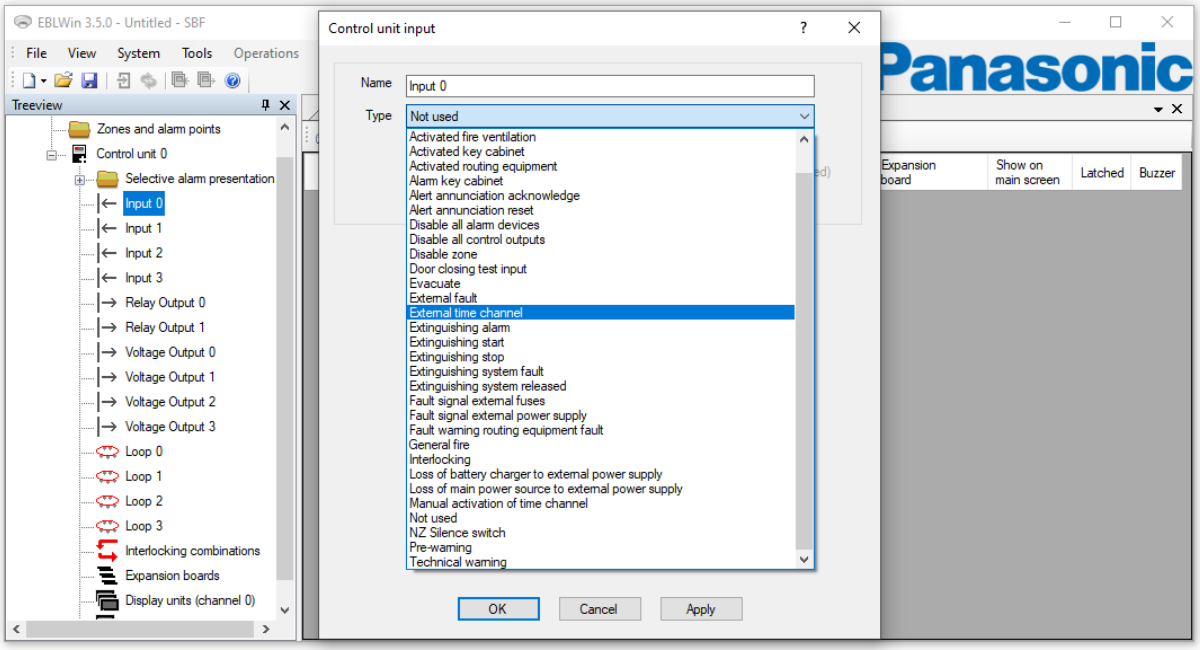


External time channels

49 external time channels (e.g. 1-49) can be used to:

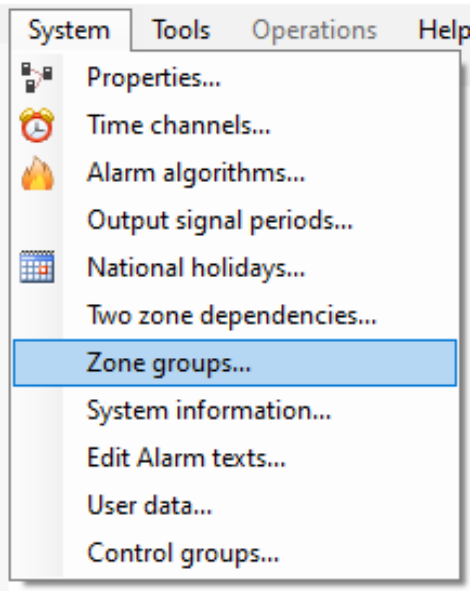
- Disable and re-enable alarm points
- Turn the Alert Annunciation function on/off
- Activate programmable control outputs
- Turn Alternative alarm algorithm for analog detector types 430x and 440x on/off
- Turn the 2-unit dependence function on/off

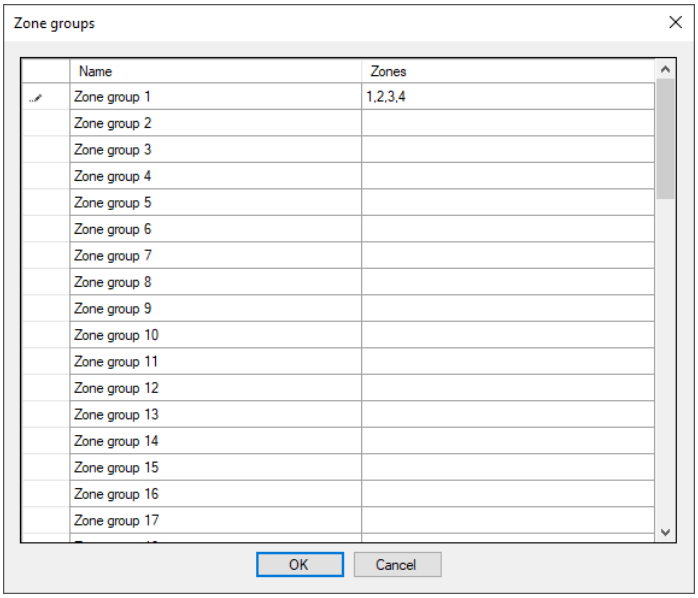
The 49 external time channels are for the whole system. One programmable input with trigger condition/type “External Time Channel” is used for each external time channel, which also is given a “Name”. The input is controlled by some external equipment, for example another time system, a key switch, a timer, and so on, with a normally open contact (normally low) or a normally closed contact (normally high). When the input is “activated” the time channel is ON.



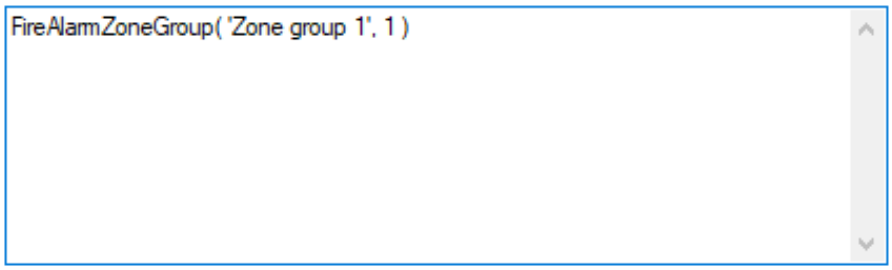
Zone groups

Zones can be grouped together in a zone group, in order to get shorter and more simple control expressions.

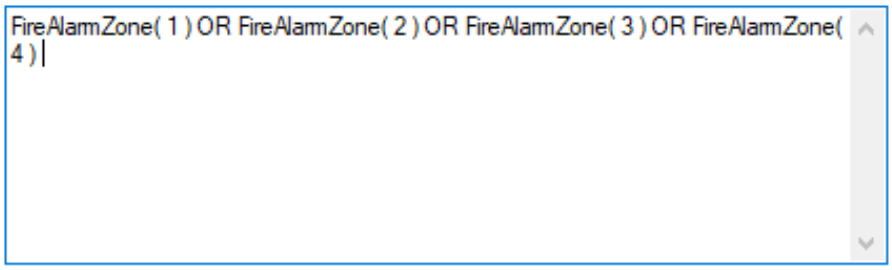




Example below: This output will be activated by alarm from Zone group 1.

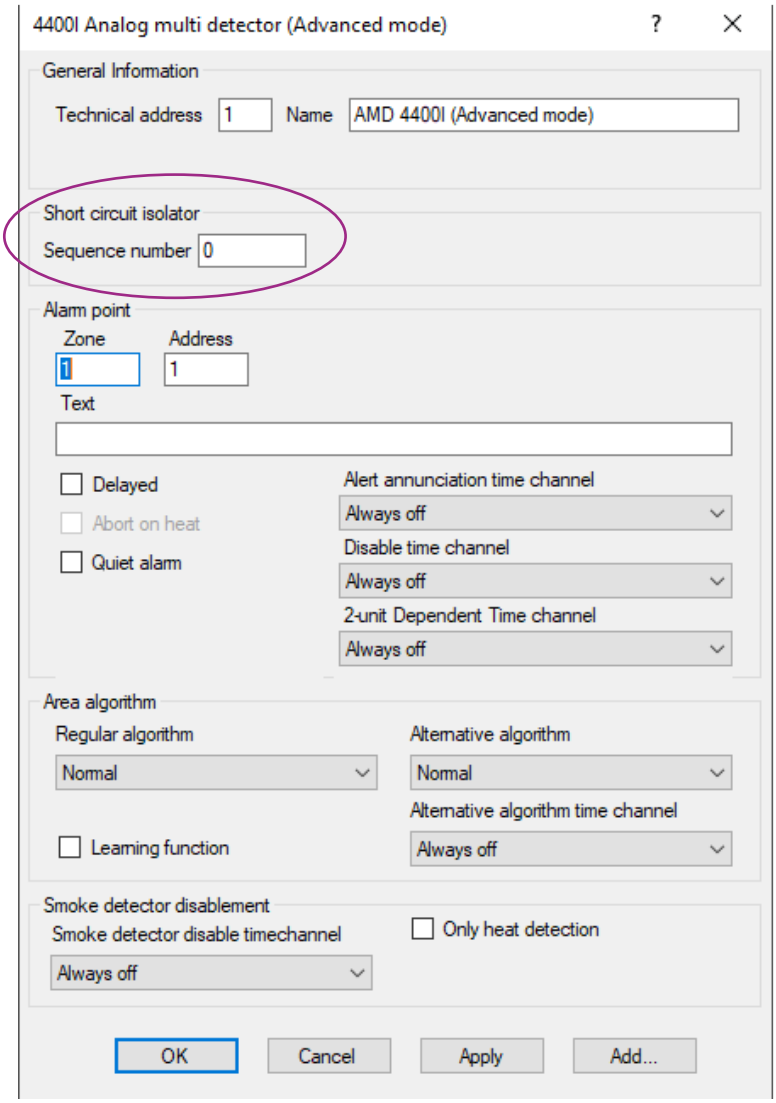


Instead of: This output will be activated by alarm from Zone 1 or Zone 2 or Zone 3 or Zone 4.

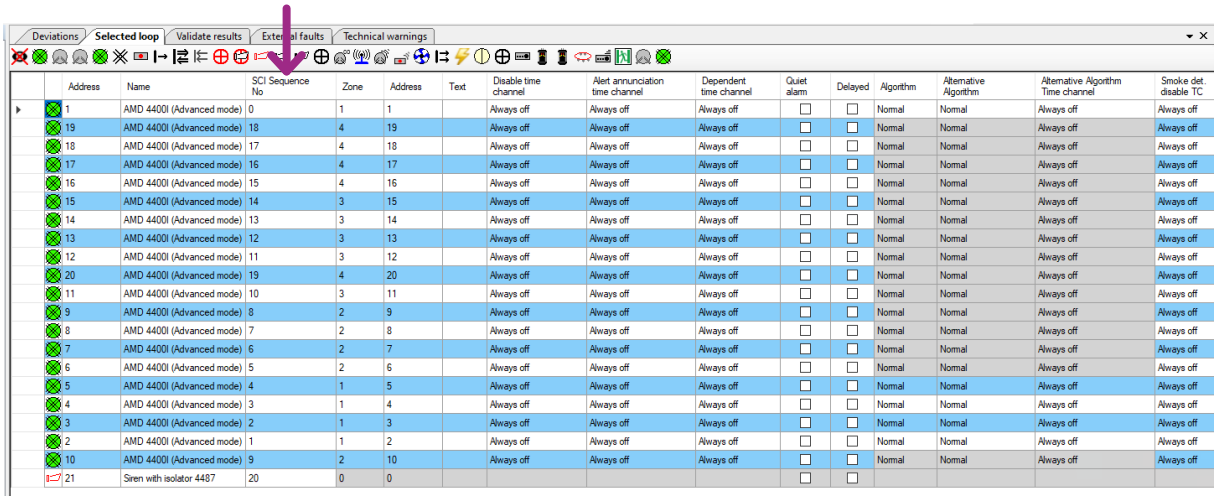


Sequence numbers

Sequence numbers = Short circuit isolator number. All units with isolator, will automatically be given a Sequence number. The first unit with isolator is given number 0, next 1 and so on. The Sequence number is shown in the properties window in EBLWin.



And you can get an overview in tab “Selected loop”. (see below)

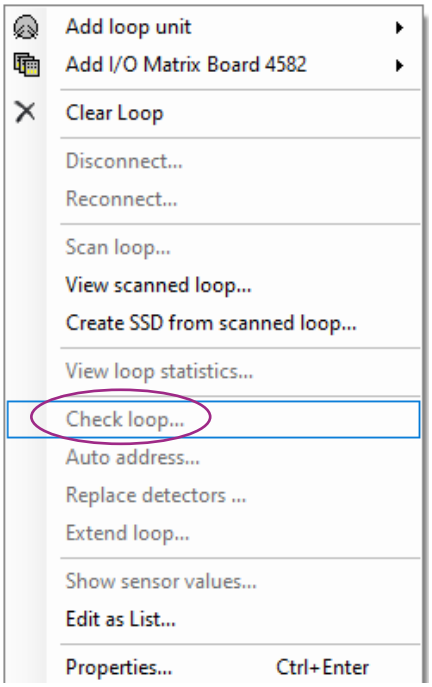


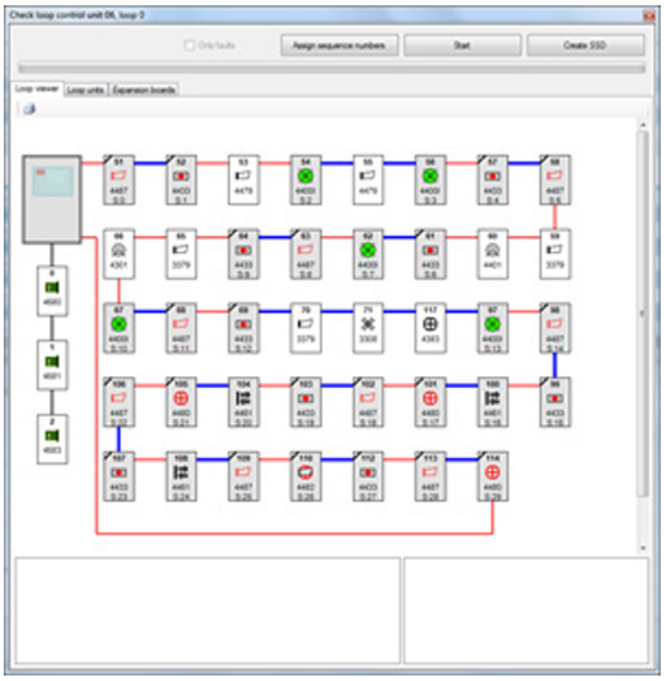
	Address	Name	SCI Sequence No	Zone	Address	Text	Disable time channel	Alert annunciation time channel	Dependent time channel	Quiet alarm	Delayed	Algorithm	Alternative Algorithm	Alternative Algorithm Time channel	Smoke det. disable TC
▸	1	AMD 4400I (Advanced mode)	0	1	1		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	19	AMD 4400I (Advanced mode)	18	4	19		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	18	AMD 4400I (Advanced mode)	17	4	18		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	17	AMD 4400I (Advanced mode)	16	4	17		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	16	AMD 4400I (Advanced mode)	15	4	16		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	15	AMD 4400I (Advanced mode)	14	3	15		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	14	AMD 4400I (Advanced mode)	13	3	14		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	13	AMD 4400I (Advanced mode)	12	3	13		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	12	AMD 4400I (Advanced mode)	11	3	12		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	20	AMD 4400I (Advanced mode)	19	4	20		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	11	AMD 4400I (Advanced mode)	10	3	11		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	9	AMD 4400I (Advanced mode)	8	2	9		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	8	AMD 4400I (Advanced mode)	7	2	8		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	7	AMD 4400I (Advanced mode)	6	2	7		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	6	AMD 4400I (Advanced mode)	5	2	6		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	5	AMD 4400I (Advanced mode)	4	1	5		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	4	AMD 4400I (Advanced mode)	3	1	4		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	3	AMD 4400I (Advanced mode)	2	1	3		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	2	AMD 4400I (Advanced mode)	1	1	2		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	10	AMD 4400I (Advanced mode)	9	2	10		Always off	Always off	Always off	☐	☐	Normal	Normal	Always off	Always off
	21	Siren with isolator 4487	20	0	0					☐	☐				

Check loop

The control unit will identify all units that are connected on the selected COM loop, and give a graphical view of the loop. Faults, like break (cut-off) or short circuit on the loop, will also be shown graphically.

A “check loop” will not only scan what is physically on the loop, it will also compare with the current SSD. All differences compared to the installation (SSD) that is open in EBLWin will be listed and can be saved and/or printed out.





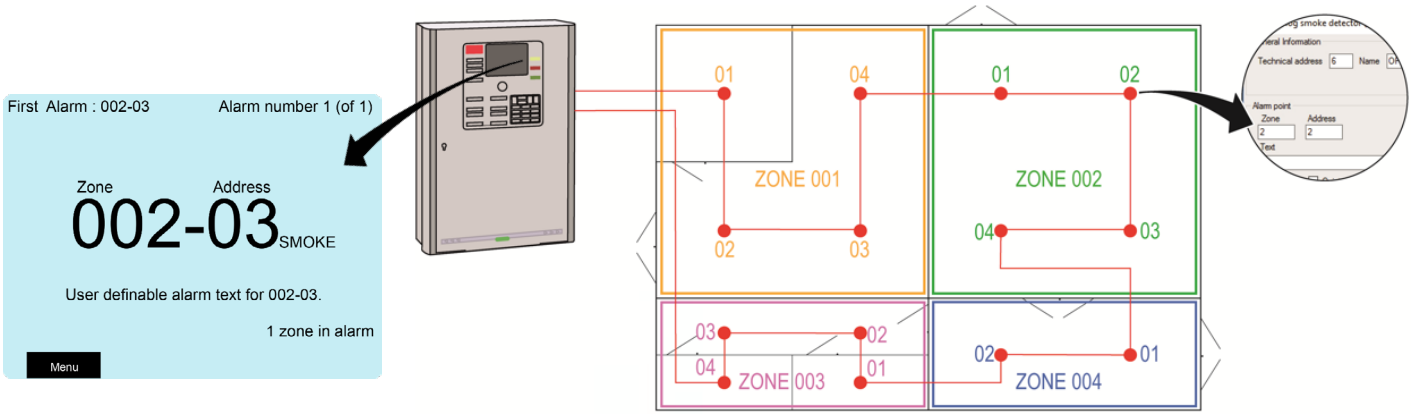
Scan loop

Mostly used with Loop Tester 1105 to identify the units connected on a COM loop before the CIE is installed. The scan loop function in EBLWin will find all units, except expansion boards, that are connected on the selected COM loop. A SSD file can be created with the units that are scanned on the COM loop. Scan loop can also be used with EBL512 G3/EBLOne, but will only scan the loop, not make any comparison with the SSD.

Presentation number

Used for alarm presentation, disablements and in control expressions. User definable alarm text.

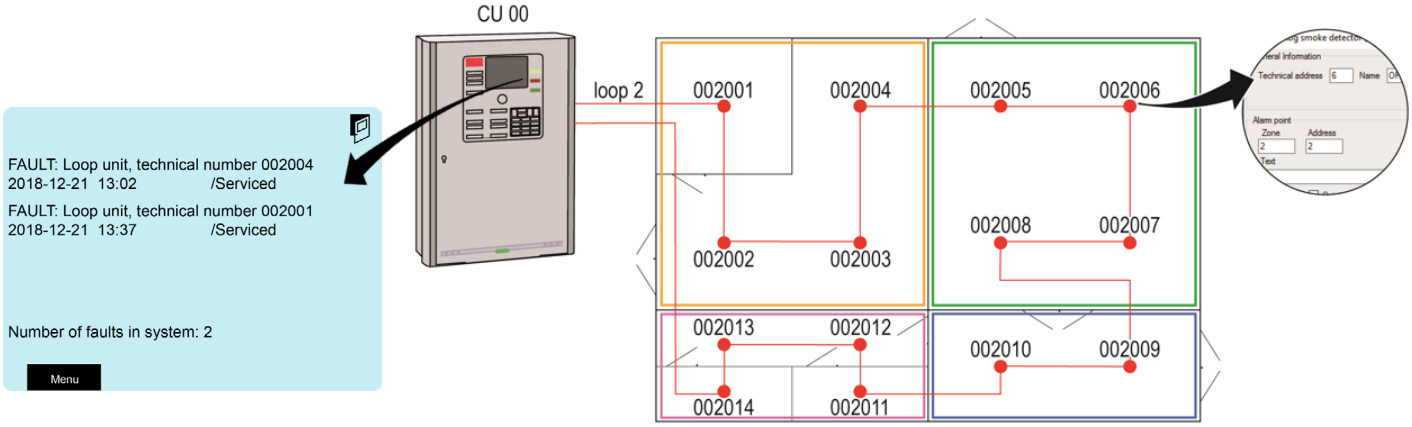
Zone number 001-999	Address within the zone 01-99
001	01



Technical number

Used for fault identification. COM loop unit address (technical address) is set with the address setting tool 4414. Or automatically via EBLWin.

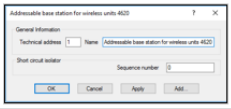
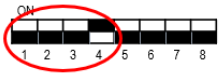
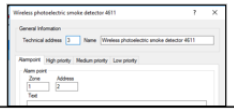
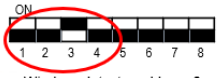
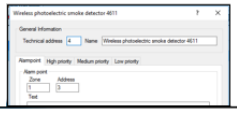
CIE number 00-29	COM loop number 0-3	COM loop unit address 001-255
00	0	001



Wireless detector address

Is the address you set on the wireless unit, with the switches.
Address 0-15. This is not the same number as COM loop unit address.

Set DIL switches and EBLWin Programming

	DIL switch	COM loop (technical) address	In EBLWin
	 COM loop (technical) address 1	1	
	 Wireless detector address **0**	2	
	 Wireless detector address **1**	3	
	 Wireless detector address **2**	4	
	Wireless detector address **15**	17	

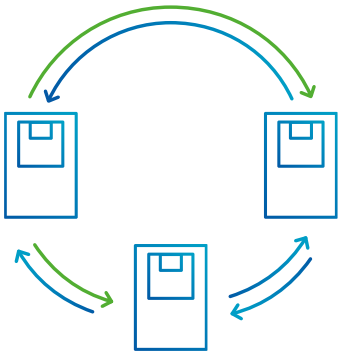
Network

Up to 30 Control units can be connected together to a Multi master system.

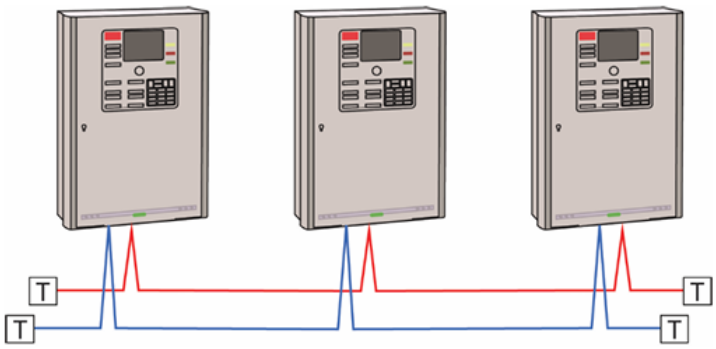
- EBL Ring network, using 5040 network boards as interface
- TLON network (obsolete) using 5090 network boards as interface

Multi master system

Each control unit in a network has access to all information.



EBL Ring network



TLON network

Display unit 5054

The display unit consists of a colour touch display and has multi language support. It is intended to be used for fire alarms and information in the fire alarm system.

It is possible to choose the unit type of the display unit:

- **External presentation unit:** The external presentation unit is intended to be used as a display unit for fire alarms and information in the fire alarm system
- **Fire Brigade Panel:** The fire brigade panel is used to present and reset the fire alarms
- **Alert annunciation unit:** Alert annunciation unit is required when the alert annunciation function is used in EBLWin to present, acknowledge, and reset the alert annunciation alarms
- **General control panel:** The general control panel is a panel used to control up to eight inputs or outputs

Panasonic

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