

# Advance protocol

**Notifier / HLS Team**

**V1.0** 29-Maart 2011



**Honeywell**

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## Latest version Configuration Software

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- Uninstall previous ID3000 configuration software
- Delete Directory under Program files!



- Install latest NF3000 Configuration Tool V3.05

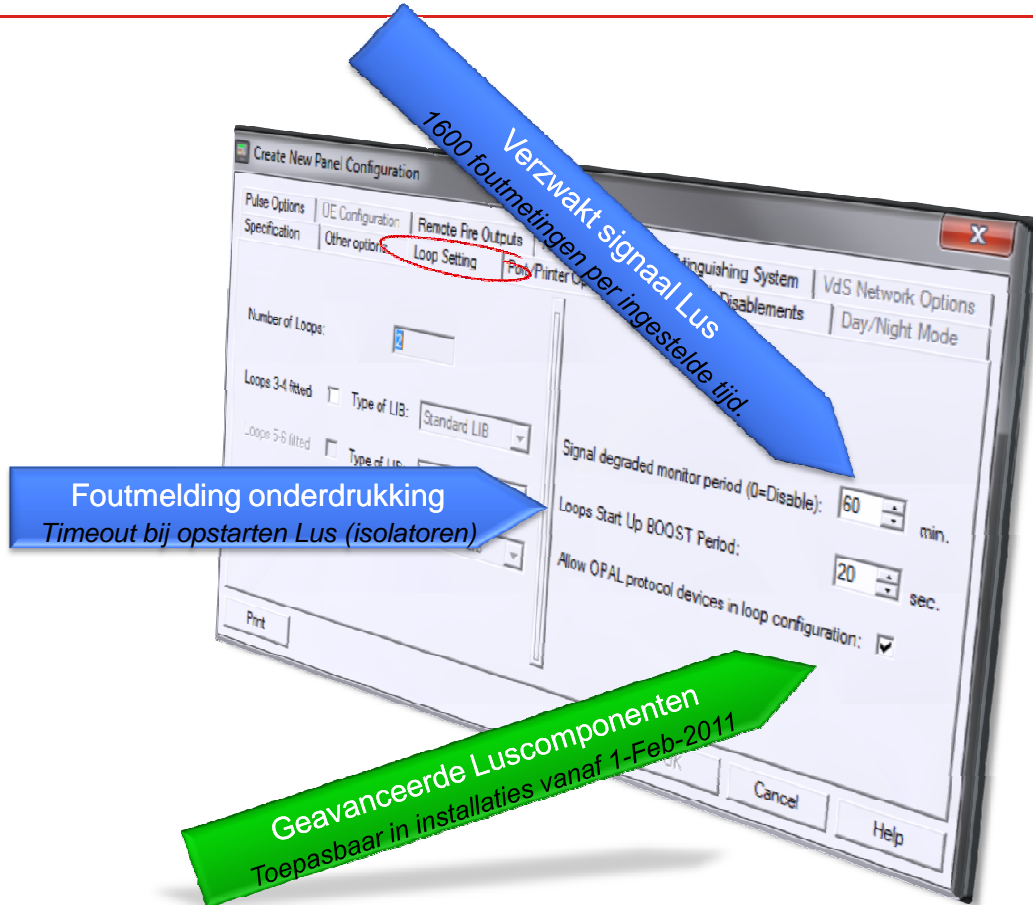
- Open Program



National Language settings

# Paneel instellingen TAB Lus-settings

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**Opal Protocol**

**Vanaf versie:**  
 Lus: 14.01  
 E-Lus: 4.2  
 Paneel: 5.05  
 Sounders/Flitsers 2010+Barcode  
 Modules : Sept 2010  
 Melders : Sept 2010

# Edit Current Panel Settings Other Options

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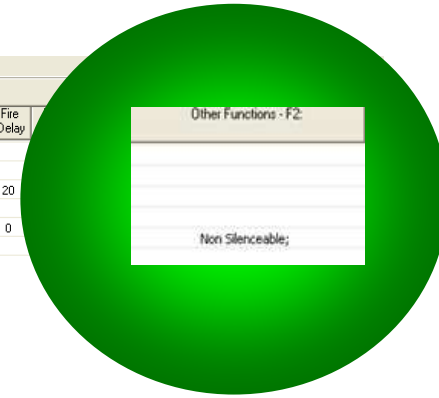
The diagram illustrates a fire alarm system with a control panel, two manual call points, and several smoke detectors. One detector is shown with a red glow and a flame below it, indicating a smoke detection event. A blue callout bubble contains the text: "Sensor Led blinks when resettable 1 second puls recommended". This bubble points to a software configuration window titled "Configuration". In the window, the "Sensors/Mod. LED Action on Return to Normal after Alarm" setting is circled in red and set to "1-second Pulsing". Other settings visible include "Time Out for LCD Backlight", "Device LED normal Operation", "Extra Delay for Mains Failure", "Log Auxiliary (Non Alarm) Input Actions", "Relay Circuits silenceable by Silence Sounders", "Re-sound Buzzer on New Alarm Same Zone", "Include Re-Sound in New Local Alarm Action", "Sounder operation after Silence Sounders" (set to "Always"), and "Mute Buzzer and Extend Delays Access Level Requirement" (set to "Access Level 2").

After smoke was detected, detector-led starts blinking

# F2 Functions Detectors and modules



Loop +Address:	Device Description:	Type:	Zone Num.:	Zone Ref.:	Zone Description:	Cell:	Alarm Lev./ Threshold (mA)	PreAlarm Lev.:	Fault	Detect Fire	S/C	O/C	Fire Delay
- Loop 1													
- Sensors													
1		OPT	1		Undefined	0	5	5	ON				20
- Modules													
1		CTRL	1		Undefined	0				OFF	ON	ON	0
+ Loop 2													



On the end of each detector or module line, extra option are available by select and pressing F2 . This opens a new windows with several functions.

## Advance protocol

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---

Nederlands selecteerbaar in WCT  
Opal Sensoren en modules  
Verbeterde autoleer sensoren en modules  
Aangepaste buitendienst stelling  
Uitgebreide laptest informatie mbt versies.  
Meer kleuren aansturing sensor leds.  
Advance Synchronisatie Alarmgevers en toon/volume instelling  
Applicatie instelling SMART4 sensoren  
Aansturen nevenindicator door F2 als ook de Control Matrix  
Verbeterde Log/toon menu (serie nummers)  
Loop topologie mogelijkheid ( nog niet vrij gegeven)

## CLIP vs OPAL Protocol

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- Vereenvoudigde instelling synchronisatie alarmgevers
- Herleiden volgorde van Sensoren & modules op lus
- Aansturen van nevenindicatoren vanuit de sensoren
- Multi kleur sensor led
- Alle Sensoren zijn voorzien van kortsluit isolator
- Stabielere luscommunicatie



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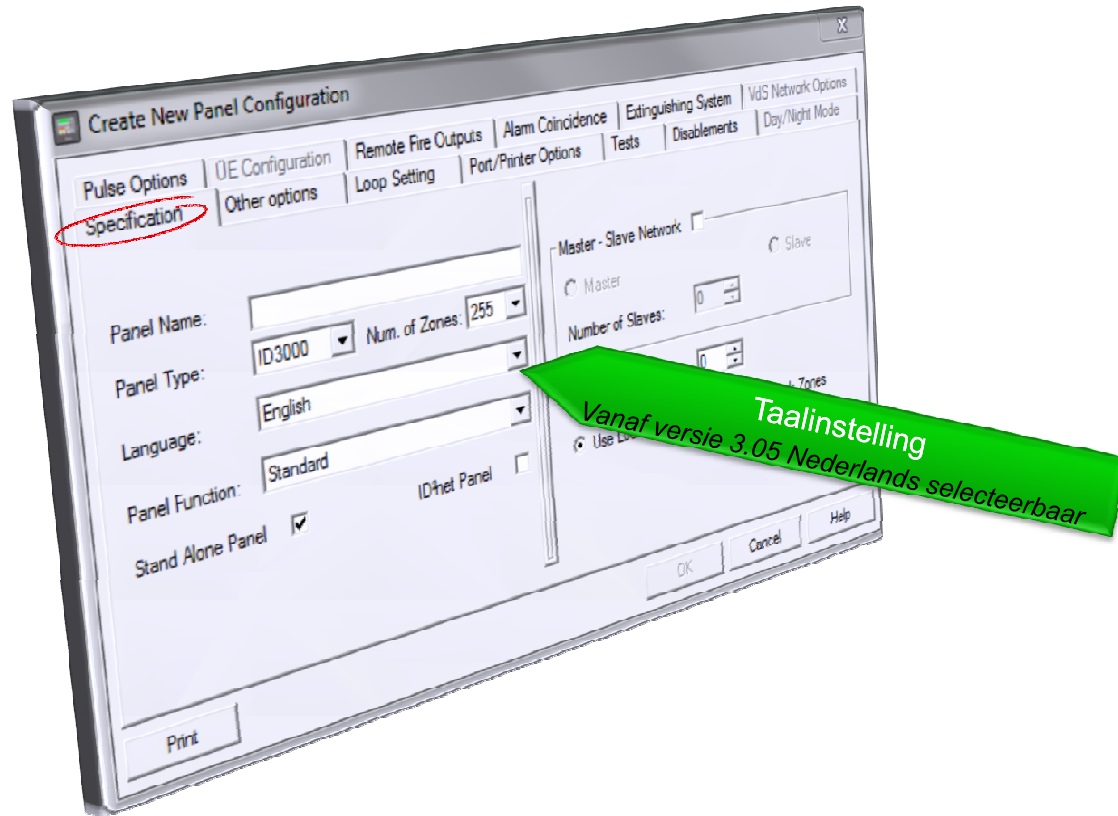
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# Nederlands selecteerbaar in WCT

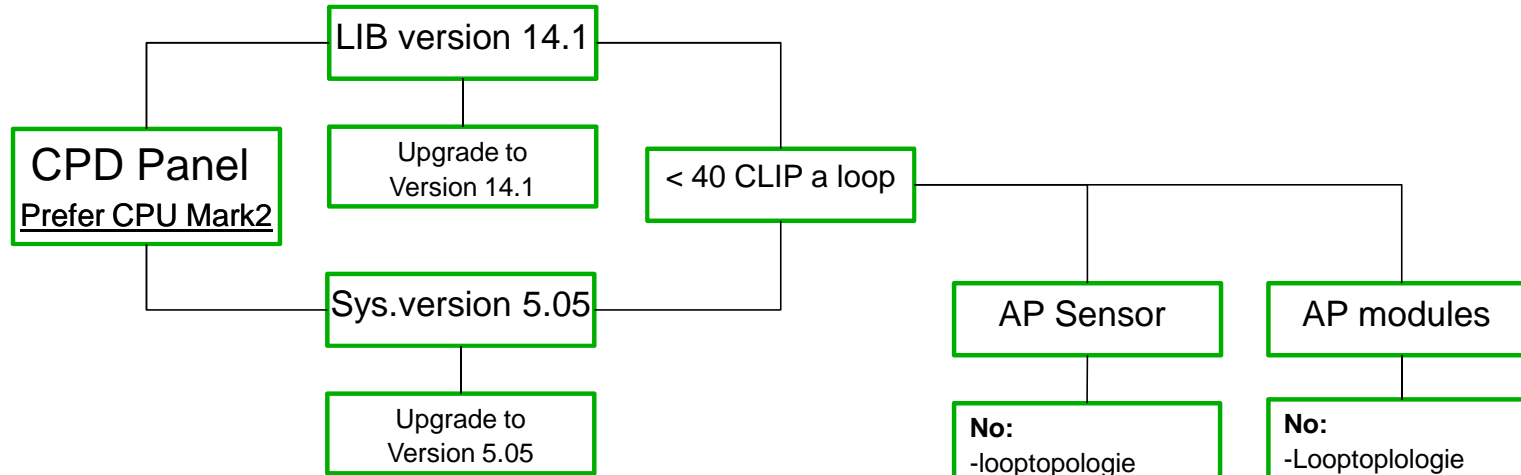
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# When is Upgrade AP possible

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-Lamp Test-

```

PRODUCT NAME          version 5.03n
Intelligent Fire Detection System
-----
LIB software versions:
L1:13.02 L2:13.02 L3:14.01 L4:14.01
CPU Card type: Mark 1
Press '9' to switch all lamps on
  
```

```

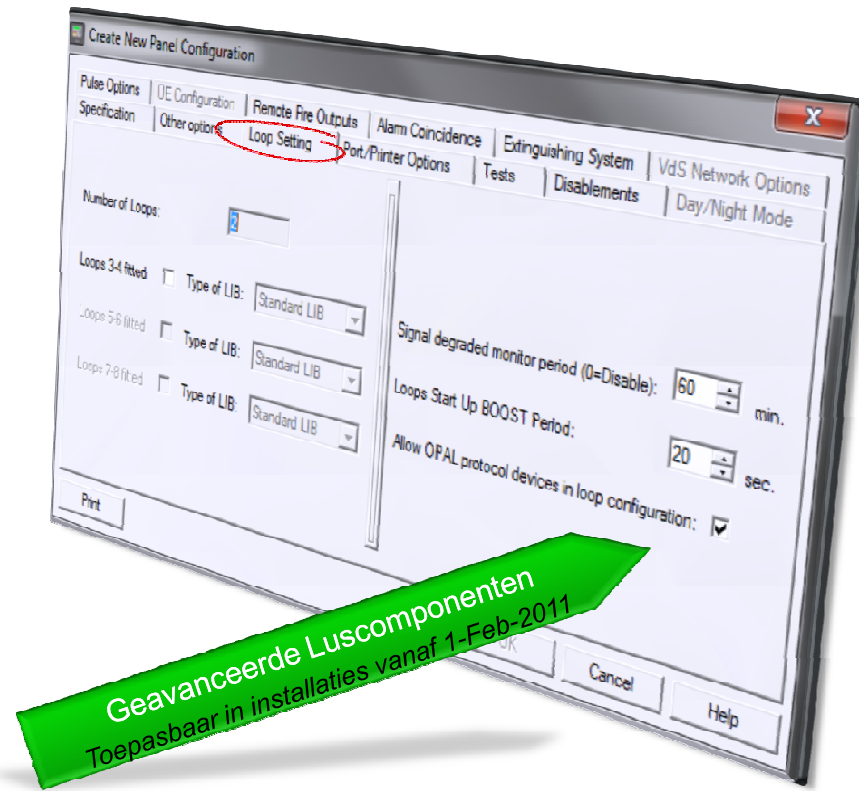
PRODUCT NAME          version 5.03n
Intelligent Fire Detection System
-----
LIB software versions:
L1:13.02 L2:13.02 L3:14.01 L4:14.01
CPU Card type: Mark 2 (CPD)
Press '9' to switch all lamps on
  
```

```

OPAL Advanced Protocol Options
-----
LIB software on Loops 1 2 3 4 5 6
must be updated to version 14.01
before OPAL protocol can be supported.
  
```

# Paneel instellingen TAB Lus-settings

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Geavanceerde Luscomponenten  
 Toepasbaar in installaties vanaf 1-Feb-2011

**Opal Protocol**

**Vanaf versie:**  
 Lus: 14.01  
 E-Lus: 4.2  
 Paneel: 5.05  
 Sounders/Flitsers 2010+Barcode  
 Modules : Sept 2010  
 Melders :Sept 2010

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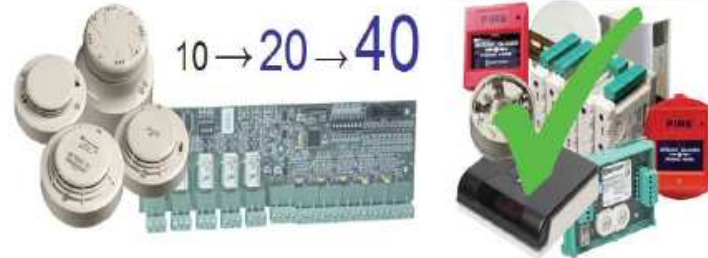
## Advance protocol

- Alle modules & Sensoren na Oktober 2010
- Sounders hebben barcode...



## NIET Advance protocol

- Alle modules & Sensoren van vóór 2010
- MMX10 CMX10 MCX55
- Filtrex, View, LPB620



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# Opal Sensoren en modules

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ID3Kv6 New Layout

## Verbeterde autoleer sensoren en modules

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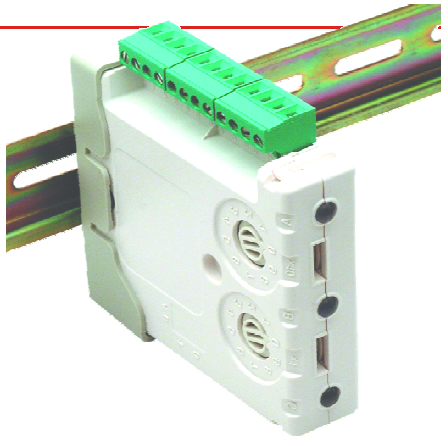
Autoleer:

- Met Mark2 CPU in twee fases  $\pm 25$ min. gedeeltelijke dekking
- Opvolgende autoleer is sneller,  $\pm 6$ min.
- Tweede autoconfiguratie gebeurt op de achtergrond. (level3)
- Met Mark1 CPU wordt enkel één autoconfiguratie uitgevoerd.

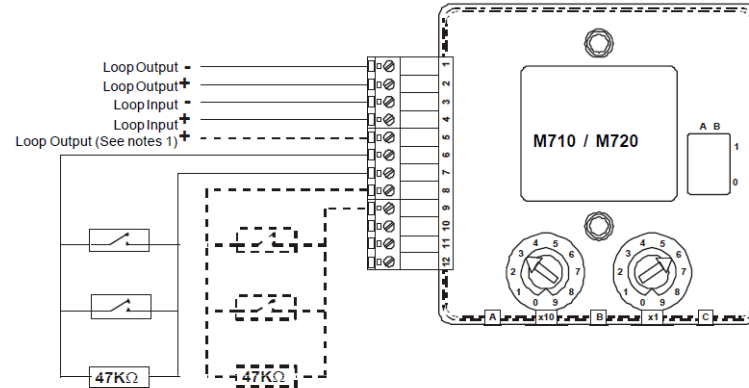
```
Auto-Configuration of Advanced Protocol  
(OPAL) loop devices in progress:  
NOTE: Panel is PARTIALLY operational  
during this process.  
-----  
Test User Fri 12-Nov-2010 14:49:55
```

# Verbeterde autoleer sensoren en modules

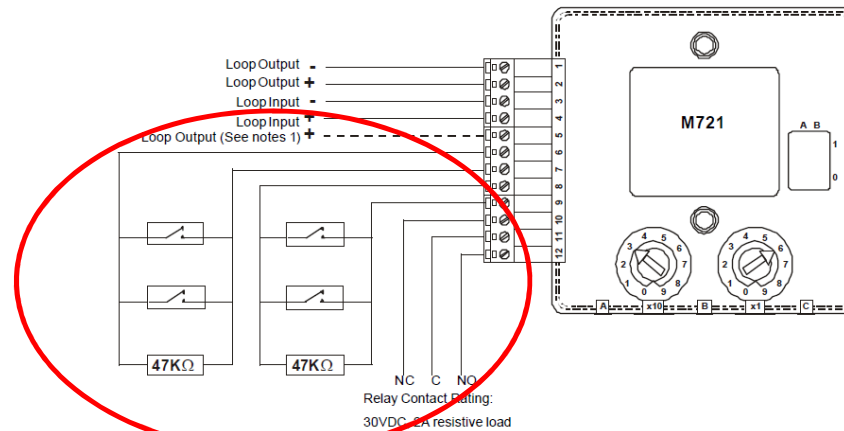
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M710 / M720 Connection Detail



M721 Connection Detail



C:\Users\308305\Desktop\training.mdb - [training [STAND ALC

File Panel Repeater View Edit Communications Sys

Loop	Device	Type:	Zone
+Address:	Description:		Num.:
[-] <input checked="" type="checkbox"/> Loop 1			
[-] <input type="checkbox"/> Sensors			
[-] <input checked="" type="checkbox"/> Modules			
[-] <input checked="" type="checkbox"/> 1		MON.	1
[-] <input checked="" type="checkbox"/> 2		MON.	1
[-] <input checked="" type="checkbox"/> 3		MON.	1
[-] <input checked="" type="checkbox"/> 4		MON.	1
[-] <input checked="" type="checkbox"/> 5		MON.	1
[-] <input checked="" type="checkbox"/> 6		CTRL	1
[+] <input type="checkbox"/> Loop 2			



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## Aangepaste buitendienst stelling

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```
Disable/Enable Menu:
 1:Alarm Inputs by Zone
 2:Alarm Outputs by Zone
 3:Individual device
 4:All Outputs, All Panels
User Mon 09-Feb-2009 11:20:07
```

```
All Outputs, All Panels
 1:DISABLE sounders
 2:ENABLE sounders
 3:DISABLE control outputs
 4:ENABLE control outputs
User Mon 09-Feb-2009 11:20:07
```

### Disable/Enable 'All Outputs, All Panels' Option

The Disable/Enable menu has an additional option 'All Outputs, All Panels'. This option is already available to panels in Network Zones mode. This option is now available with Panel Zones configuration mode.

Selecting option 4: All Outputs, All panels it is possible to:

- a. Disable or enable all sounders
- b. Disable or enable all control outputs

In the case of a sectored network system, the scope of 'All Panels' extends only to the local sector or sectors which the originating panel has visibility.

# Uitgebreide laptest informatie mbt versies

**Honeywell**

```
PRODUCT NAME          version 5.03n
      Intelligent Fire Detection System
-----
LIB software versions:
L1:13.02 L2:13.02 L3:14.01 L4:14.01
CPU Card type: Mark 1
-----
Press '9' to switch all lamps on
```

```
PRODUCT NAME          version 5.03n
      Intelligent Fire Detection System
-----
LIB software versions:
L1:13.02 L2:13.02 L3:14.01 L4:14.01
CPU Card type: Mark 2 (CPD)
-----
Press '9' to switch all lamps on
```



# Uitlezing Sensor waarde

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**INPUT SUB-ADDRESS LIMITS**

SUB ADDRESS	MEANING	CONDITION	ABSOLUTE LIMITS (due to environmental/aging effects)		FINAL AUDIT LIMITS			COMMENTS
			MIN	MAX	MIN	TYP	MAX	
0	Processed photo	Normal	48	66	48	50	52	
		Internal Faults	1	9	--	-	--	
		Low Chamber Trouble	10	10	--	--	--	
		Drift Compensation Indication	40	50	50	50	50	The value decreases from 50 (Detector Clean) to 40 (100% of drift compensation reached – maintenance urgent) with steps of 1 (10% of total drift each). So for example the 80% of drift level (maintenance alert) corresponds to the value of 42
		Alarm 1 - 1%/ft.	120	120	--	--	--	
		Alarm 2 - Adjusting 1% - 2%/ft.	140	140	--	--	--	
		Alarm 3 - 2%/ft.	150	150	--	--	--	
		Alarm 4 - Adjusting 2% - 3.5%/ft.	160	160	--	--	--	
		Alarm 5 - 3.5%/ft.	170	170	--	--	--	
		Alarm 6 – Heat (FIX or ROR)	200	200	--	--	--	
		Remote Test	253	253	253	253	253	
		Magnet Test	254	254	254	254	254	
		Power Up special value	255	255	255	255	255	
1	Raw photo	Normal	19	33	23	25	27	
2	Static Temperature	Normal	0	255	100	120	140	Conversion formula: T(°C) = Data/2 -35 (Fig. 4)
3	ROR Temperature	Normal	0	255	119	120	121	Depending on environmental temp
127	Isolators	Normal	224	224		224		If isolators present (0 if not)
		Open	96	96		96		If isolators present (0 if not)

## Uitlezing Sensor waarde

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```
▼0010/01:  
-----  
Panel 3 L1 S11 HEAT value: 59  
OPAL Serial Number: 072911F6  
Data Log: samples = NONE  
  
[Service]----- Fri 12-Nov-2010 14:49:55
```

```
0006/01:  
-----  
MCP : OPAL Serial Number: 1448005D  
Press "✓" key  
  
[Service]----- Fri 12-Nov-2010 14:49:55
```

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## Meer kleuren aansturing sensor leds

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Groen kan worden gebruikt  
tijdens normaal bedrijf & test

Rood voor normale status  
retrofit, alarm, vooralarm,  
vóór automatische  
configuratie autoleer

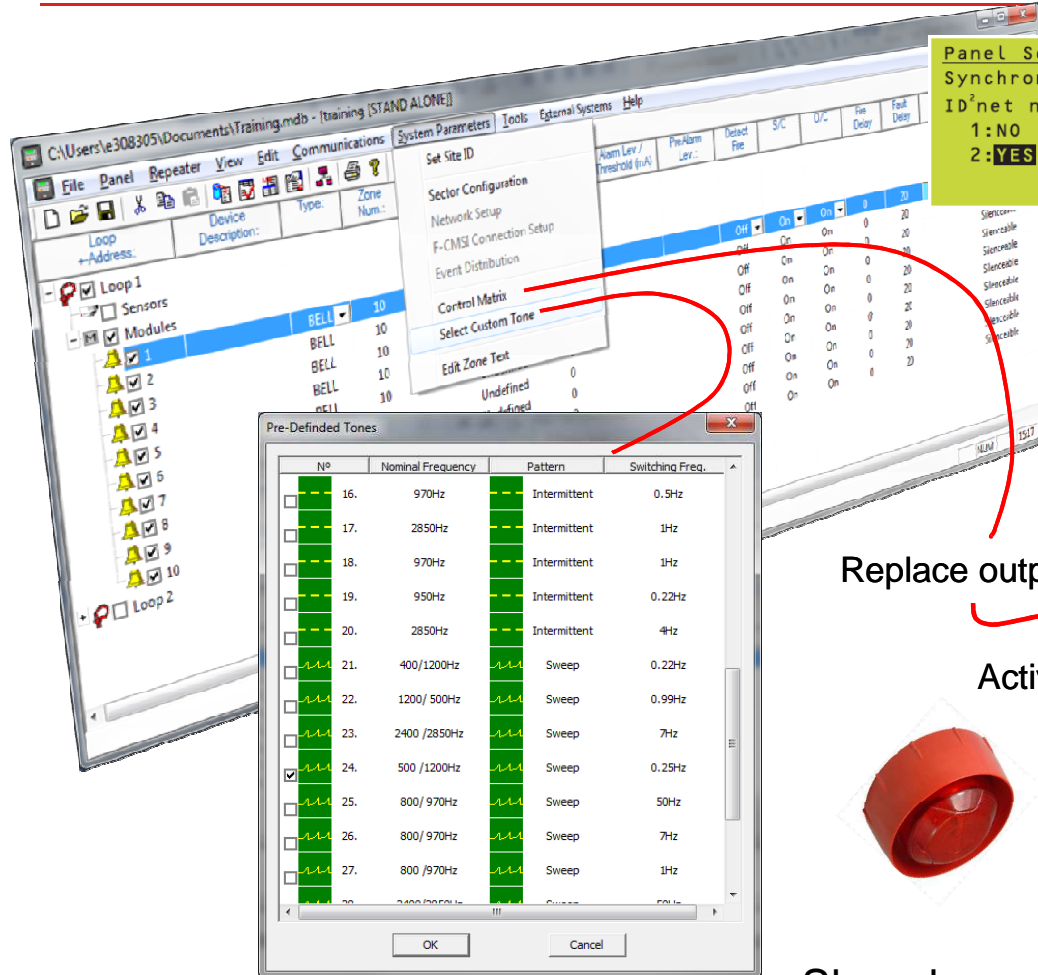
Geel:  
Storing sensor, openlijn,  
kortsluiting, dubbel adres,  
adres > 99,

```
Ln Snn: Description
HEAT Sensor: LED control:
 1:RED
 2:GREEN
 3:YELLOW
User/ Mon 15-Nov-2010 11:20:07
```

```
Panel Settings
-----
Select colour for Advanced sensor LEDs
Normal blinking and Zone Test:
 1:GREEN
 2:RED
```

# AP Sync. Alarmgevers en toon/vol.instelling

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Panel Settings  
 Synchronise OPAL sounders across  
 ID² net network?  
 1:NO  
 2:YES

Enkel selecteren  
 wanneer nodig.  
 Langere vertraging  
 tot syncr.

Replace output event

Activate Output

Slowwhoop = 24

- >All zones
- >Specified zone
- >Spec. Individual Device

Filter



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# Applicatie instelling SMART4 sensoren

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Application Number	Possible 'Nuisance' Environment: Application Details	Recommended Alarm Threshold setting
NONE	- Vacuum cleaning - dust causing photo sensor only alarm. Default configuration: no effect	4
0	- Hotel bedroom near shower. Steam and ROR in heat from sensor near bathroom door - Boiler rooms. Dust and ROR heat causing false alarms. Heat response changed.	4 4
1	- Student dormitories, smoking hotel rooms. Small appliance cooking/cig. smoke	5
2	- Insect alarms. Uses Photo element only. - Condensation in attics and similar unheated spaces, e.g. pump houses, service intake rooms, etc. Uses Photo element only. - Heavy manufacturing. Photo element alarms from dust/dirt (may also include welding) - Strobes in industrial areas. Photo element alarms from dazzling light/welding.	5 5 5 4
3	- Dusty environments (and settled dust turbulence in the chamber before drift alarm reached) Uses Photo element only. - AHU rooms and lift motor rooms. False alarm from 'dust burst' reduction.	5 5
4	- Synthetic smoke in discotheques and dazzling lights from strobes. Photo sensor alarm threshold raised to maximum; CO enhancement significantly reduced. - Bar areas - photo sensor alarm from steam from glass washers/cigarette smoke. - Smoking areas - alarm from photo and CO sensors' response due to cigarettes, etc.	5 5 5
5	- Car parks and loading bays with trucks with upward exhaust pipes or poor operating engines. Includes traffic build-up in cities. Alarm from Photo, CO ROR heat sensors. - Kitchens including industrial, canteens and retirement homes - Photo alarms from burning food and ROR alarms from ovens being opened.	5 5
6	- Paint shops and repair shops. Alarm from photo and ROR sensor elements. This Application may include welding and vehicles running inside building.	5
7 (*)	- Extremely long-lasting optical-only stimulus (special disco fog, anti-burglar smoke, misty/foggy area, etc.). Long lasting (>10 minutes) optical stimulus which is not caused by an incipient fire.	5

\* APPLICATION 7 WARNING - This setting must be treated with **EXTREME CAUTION** - Do not select without consulting your local fire officer. For further information regarding this setting, contact Technical Support or your Regional Sales Manager.



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# Applicatie instelling SMART4 sensoren

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```
Set device type - Loop 4 Sensor 28
Set Application Number for SMART 4
  1: Default: No Application
  2:0 Shower/Boiler Room
  3:1 Dormitory/Smoking Room
  ▼ 4:2 Insect/Attic/Heavy Manuf./Strobes
```

```
Set device type - Loop 4 Sensor 28
Set Application Number for SMART 4
  ▲ 4: 2 Insect/Attic/Heavy Manuf./Strobes
  5:3 Dust/AHU/Lift Motor
  6:4 Discotheque/Bar/Smoking
  ▼ 7:5 Car Park/Loading Bay/Kitchen
```

```
Set device type - Loop 4 Sensor 28
Set Application Number for SMART 4
  ▲ 6: 4 Discotheque/Bar/Smoking
  7:5 Car Park/Loading Bay/Kitchen
  8:6 Paint Shop
  9:7 SEEK ADVICE BEFORE USE
```

## Verbeterde Log/toon menu (serie nummers)

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```
▼0010/01:  
-----  
Panel 3 L1 S11 HEAT value: 59  
OPAL Serial Number: 072911F6  
Data Log: samples = NONE  
  
[Service] Fri 12-Nov-2010 14:49:55
```

```
0006/01:  
-----  
MCP : OPAL Serial Number: 1448005D  
Press "✓" key  
  
[Service] Fri 12-Nov-2010 14:49:55
```

# Nevenindication

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## Using F2



Edit Multi Sensor Device Data

LED Operation: Follow Panel Setting      Time Of Day: NONE

LED also controls:

Non Silencable Control       Sounder

**Remote LED follows panel state:**

Technical Alarm Input

Lock Pre-alarms

Enable Thermal-only by Zone

Required Coincidence: [L1 Coinc.: None]

Between:      Between:

```

Device Configuration - Loop n Sensor nn
Type HEAT Zone nn Cell n
Zone <(no zone text defined) >
Loc. <Device text description >
No remote LED Time-of-day-var.=NONE
◀=select *=edit ◆=next device ✓=finish

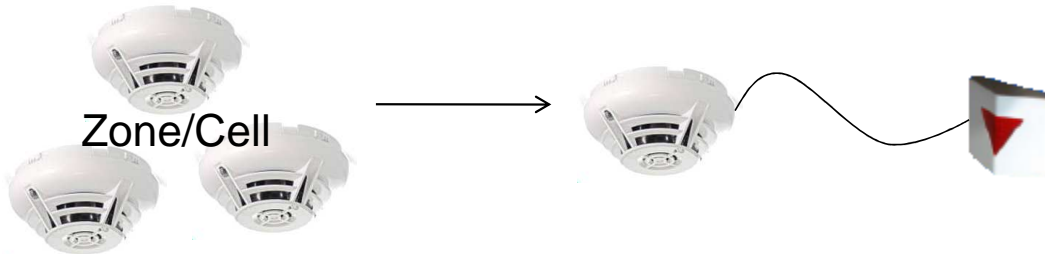
```

## Using control matrix

Uploaded Panel 0: Control Matrix Input and Output Rules

Edit    Timer and Delays    Print

Rule:	Input Event:	Delay:	T...	Output Effect:
1.	ALARM network zone: 1, Any input device type	N/A	N/A	Activate MULTI Sensor L1/1; steady



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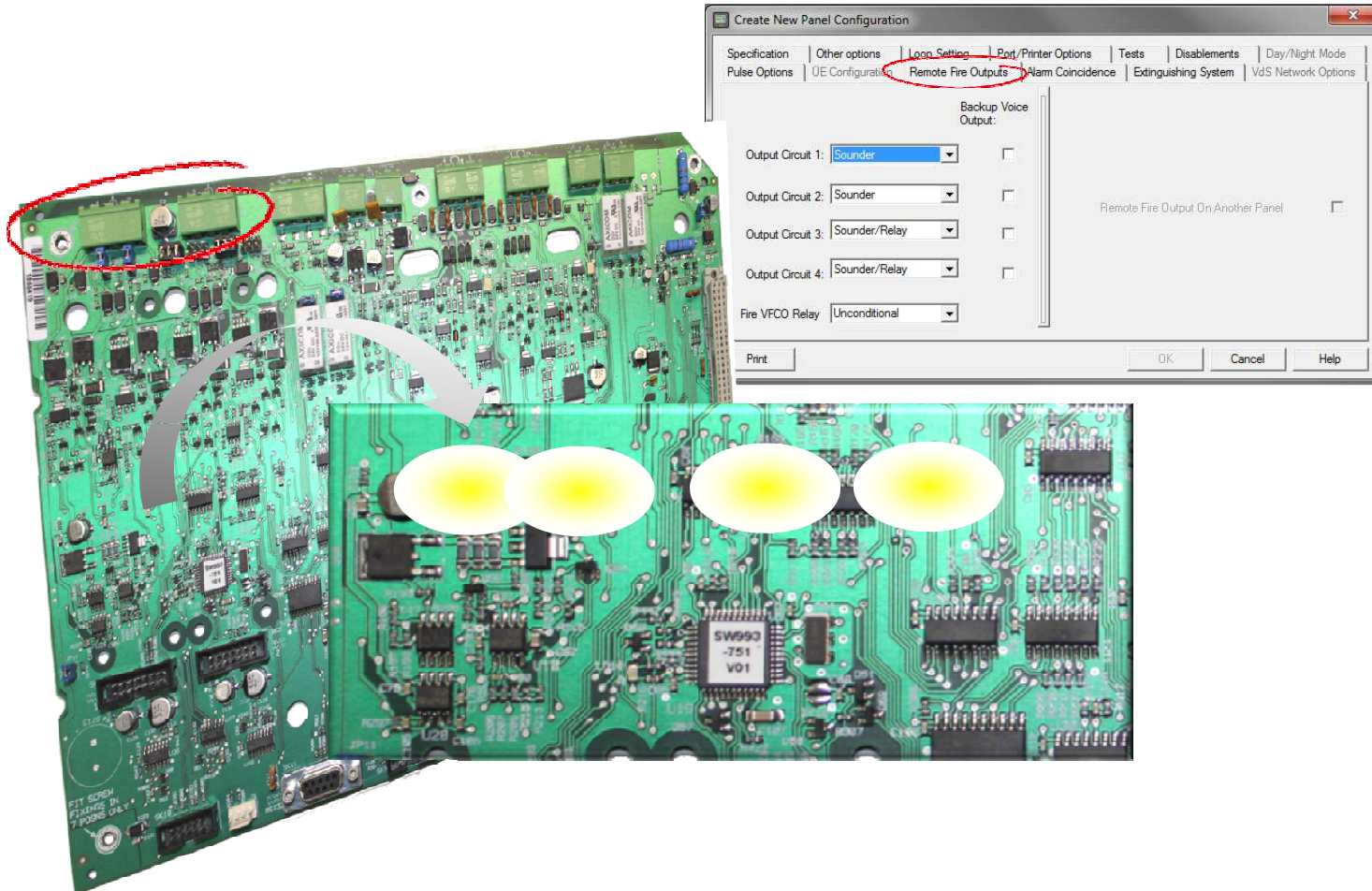
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# Led Indication Relay

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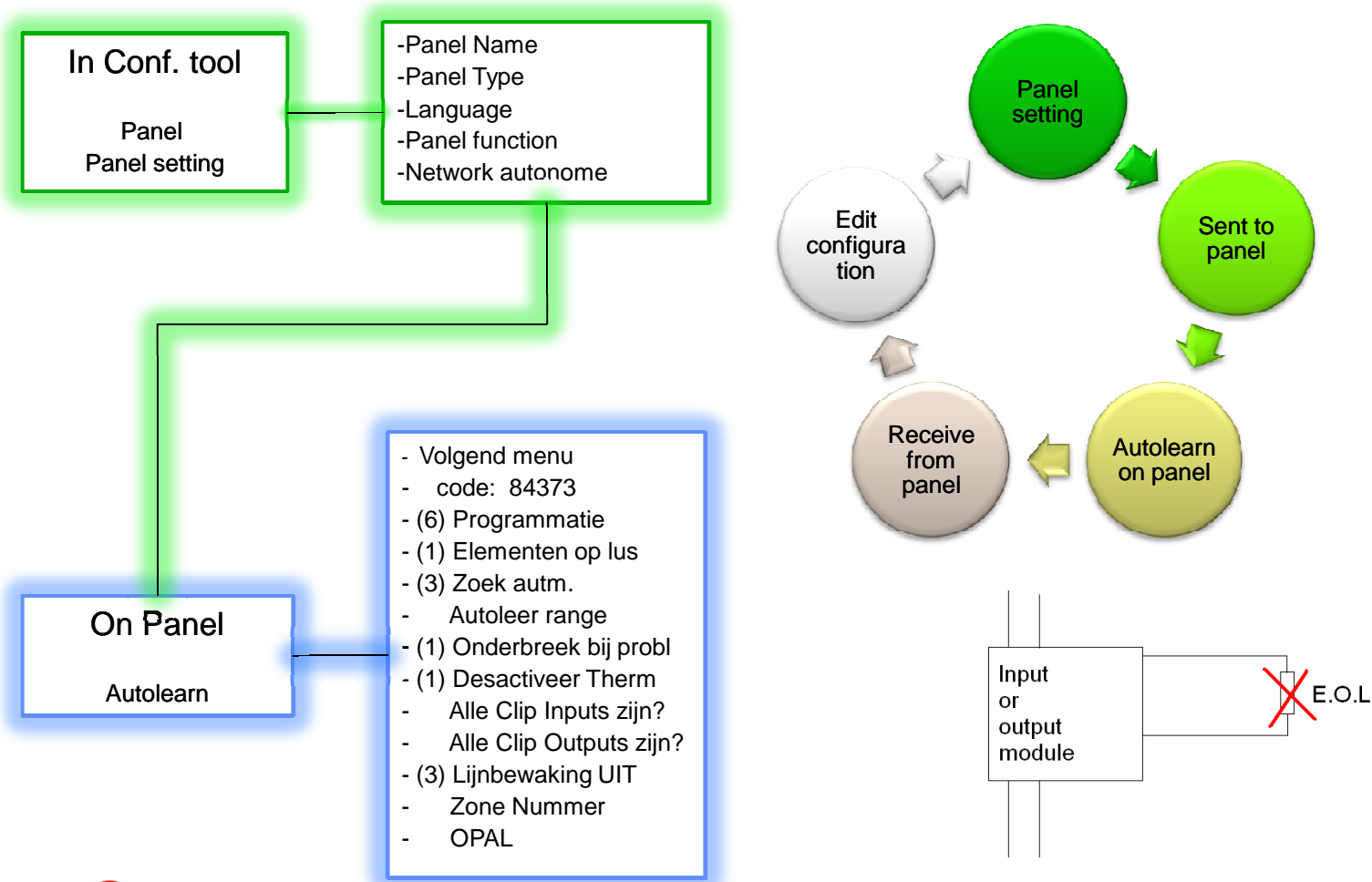
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ID3Kv6 New Layout

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# Oefening

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END  
NF3000  
ANALOG PANEL