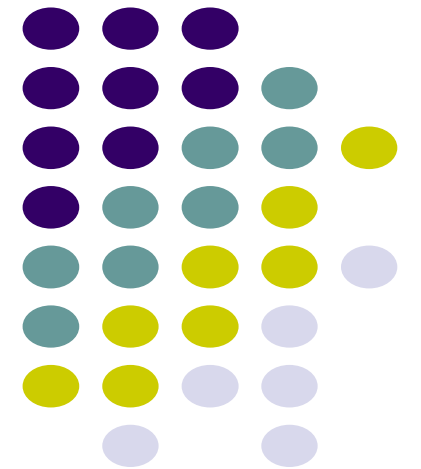


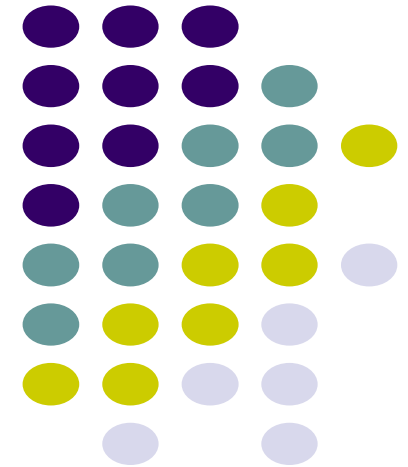
Welcome to V-GREAT



Product Training Program

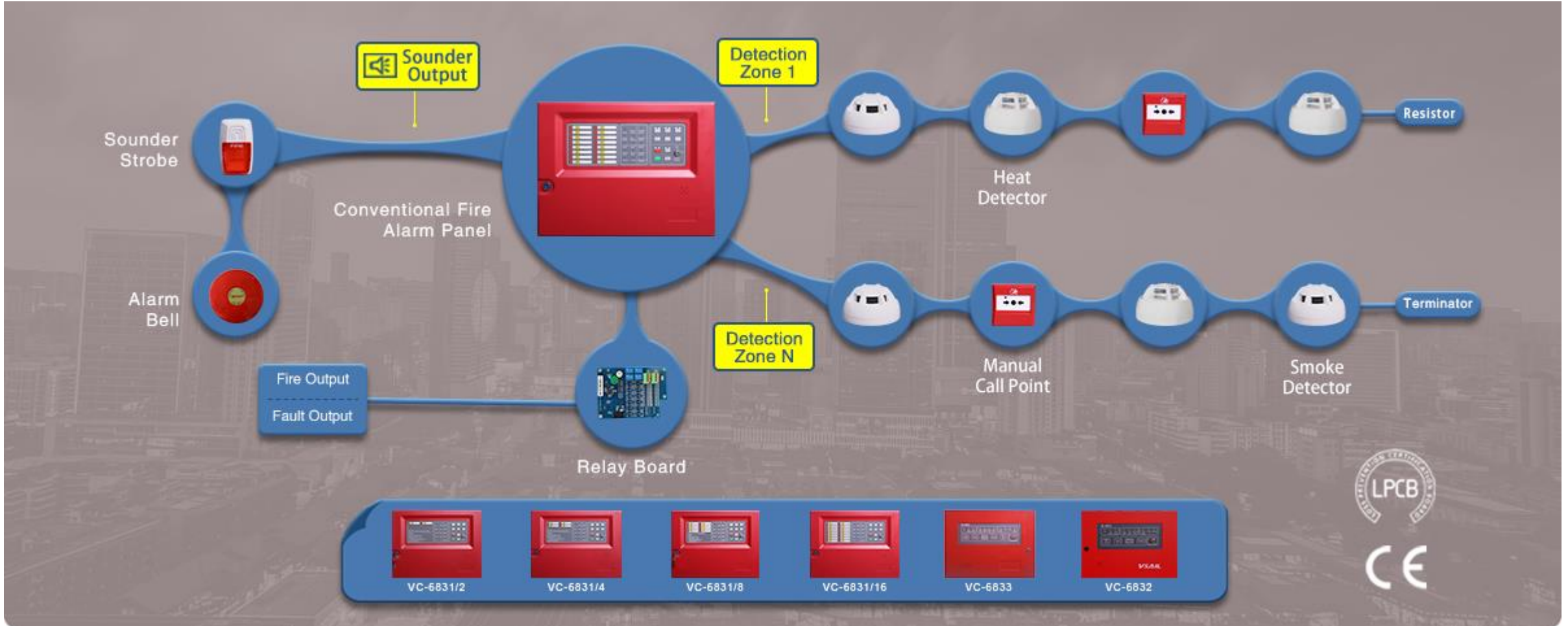
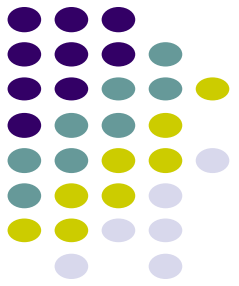


Conventional System



Eric CHEN

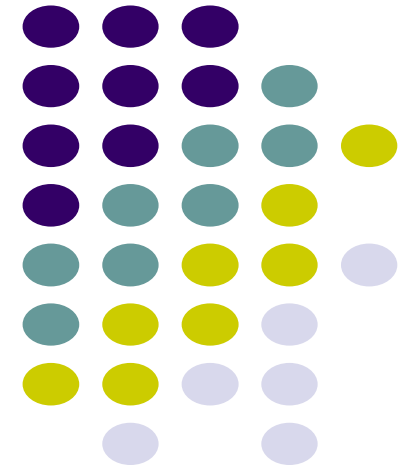
Conventional System Diagram

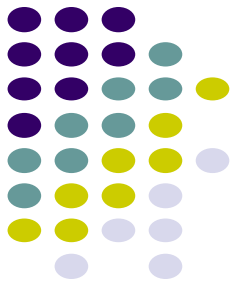


Conventional System



Field Device



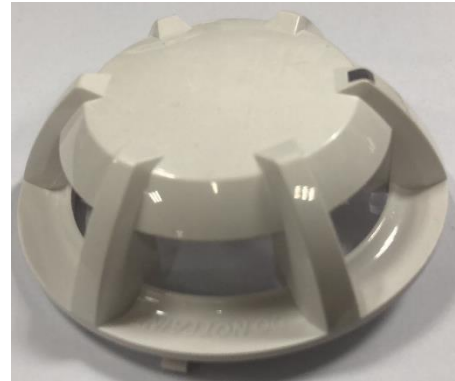
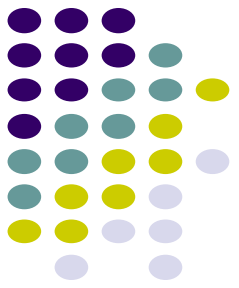


VG-6623 Smoke Detector

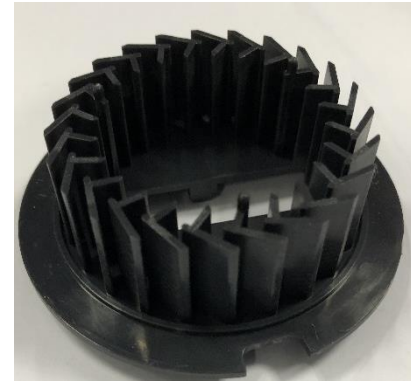


- * 360° visible LED
- * High performance on slow burning or smoldering fire
- * Build-in program of Drift compensation
- * Intelligent algorithm and judgment
- * Special chamber against interferences
- * Remote Indication Output
- * Magnetic test available
- * Talented plug-in structure without screw
- * Used in conventional line only
- * LPCB approval to EN54-7

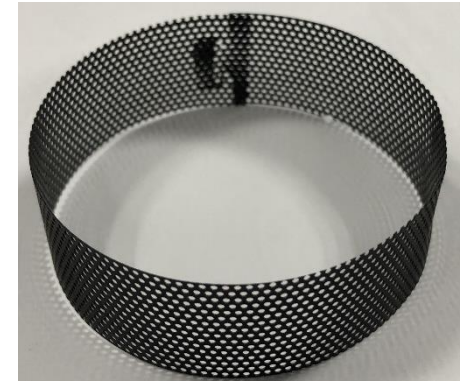
VG-6623 Components



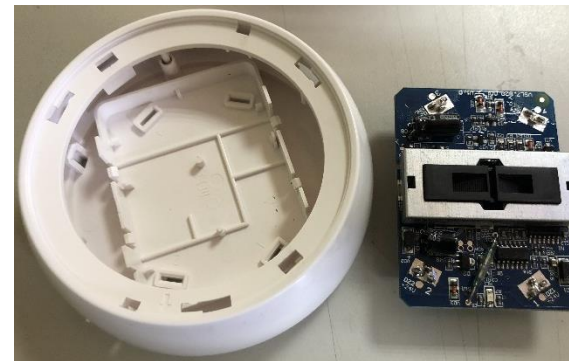
Top cover



Smoke maze

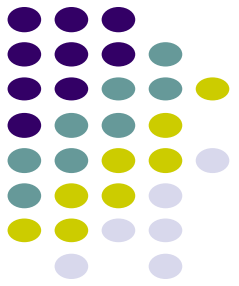


Filter



Bottom cover and Main board

VG-6623 Technical Data



Operating
Voltage:
DC9V ~ 28V

Standby Current:
 $\leq 60\mu\text{A}$

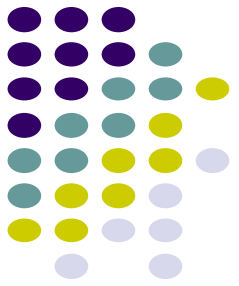
Alarm Current:
 $10\text{mA} \leq I \leq 50\text{mA}$

Remote Indicator:
10k Ω resistor
required

Dimension:
D-100mm,
H-43mm

Base: VG-6611

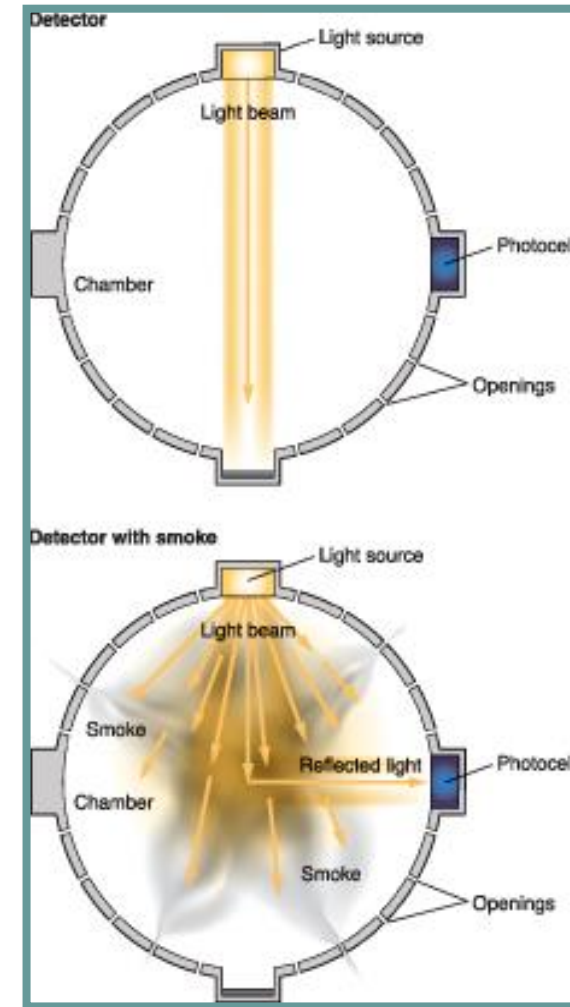
Smoke Detector Theory



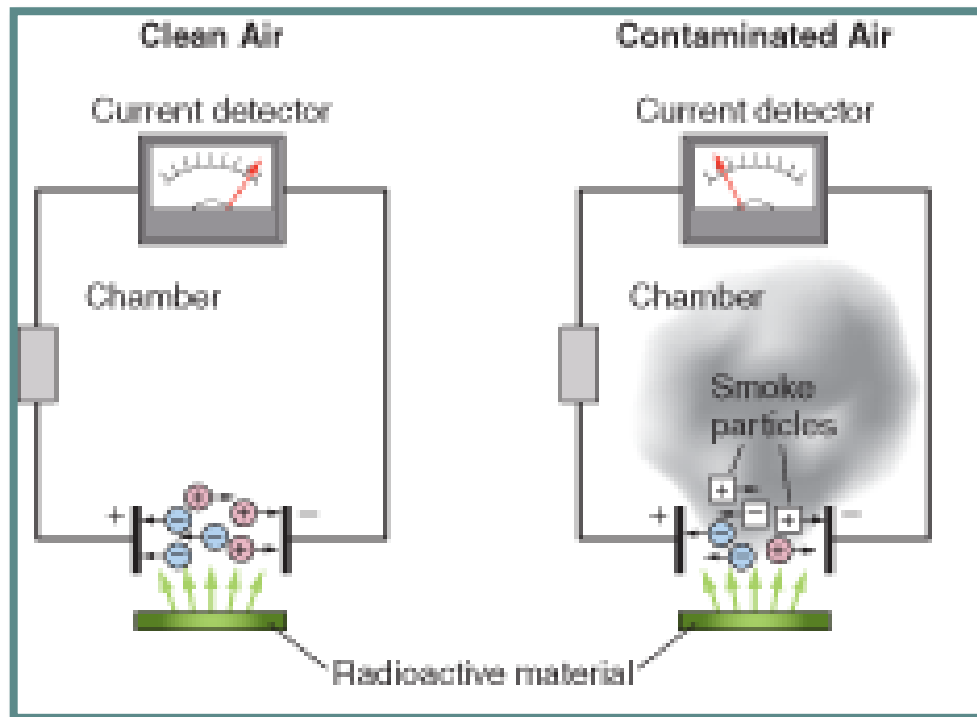
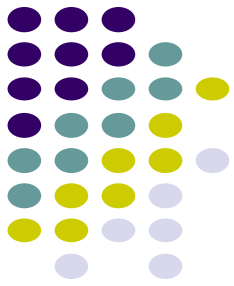
Optical Principle

Advantages:

- More reliable
- Environmental friendly
- Higher accuracy
- Faster responding time



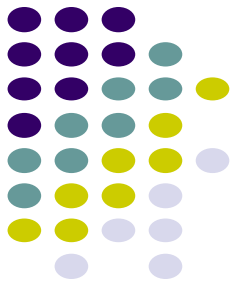
Smoke Detector Theory



Ionization Principle

Disadvantages

- More prone to false alarm
- Slower in smoldering stage
- Radioactive pollution and damage

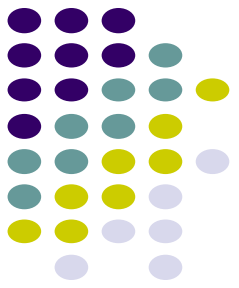


VG-6633 Heat Detector

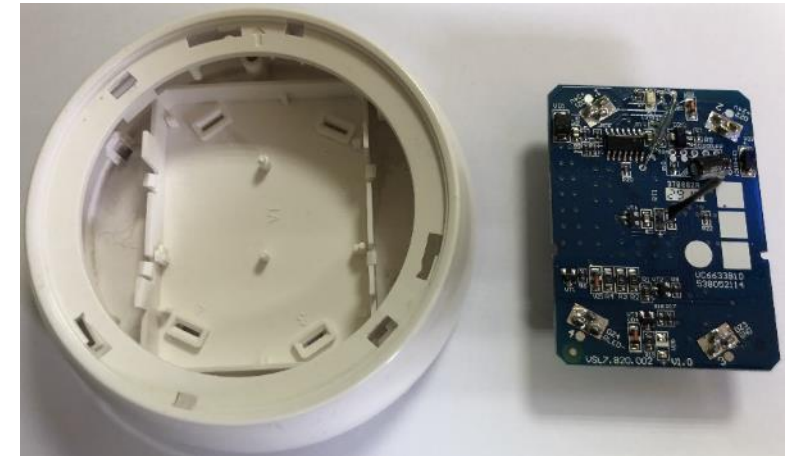


- * 360° visible LED
- * Thermal sensor with high sensitivity
- * Classification of A2R
- * Principle of Fixed Temperature and Rate of Rise
- * Remote Indication Output
- * Magnetic test available
- * Talented plug-in structure without screw
- * Used in conventional line only
- * LPCB approval to EN54-5

VG-6633 Components

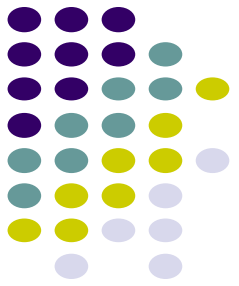


Top cover



Bottom cover and Main board

VG-6633 Technical Data



Operating
Voltage:
DC9V ~ 28V

Standby Current:
 $\leq 60\mu\text{A}$

Alarm Current:
 $10\text{mA} \leq I \leq 50\text{mA}$

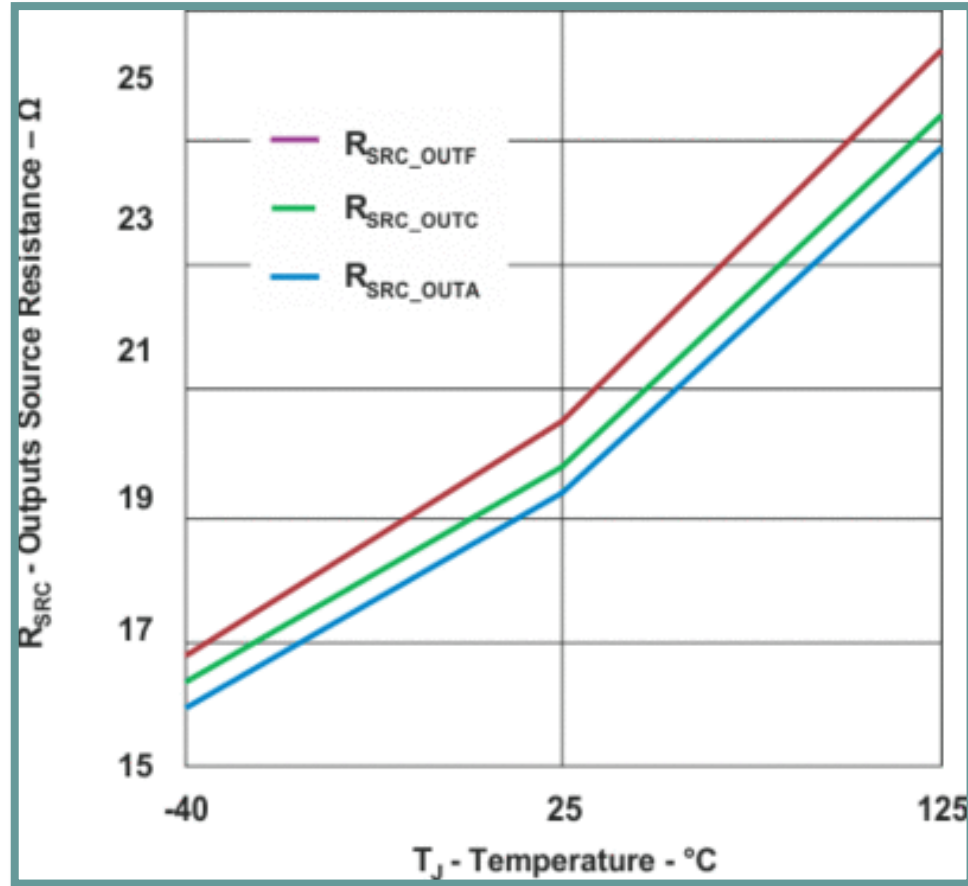
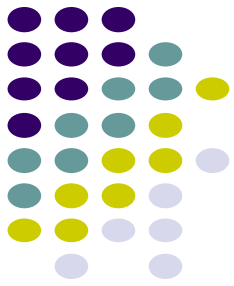
Classification:
A2R

Remote Indicator:
10k Ω resistor
required

Dimension:
D-100mm,
H-43mm

Base:
VG-6611

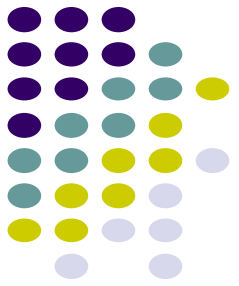
Heat Detector Theory



Heat sensitive eutectic alloy

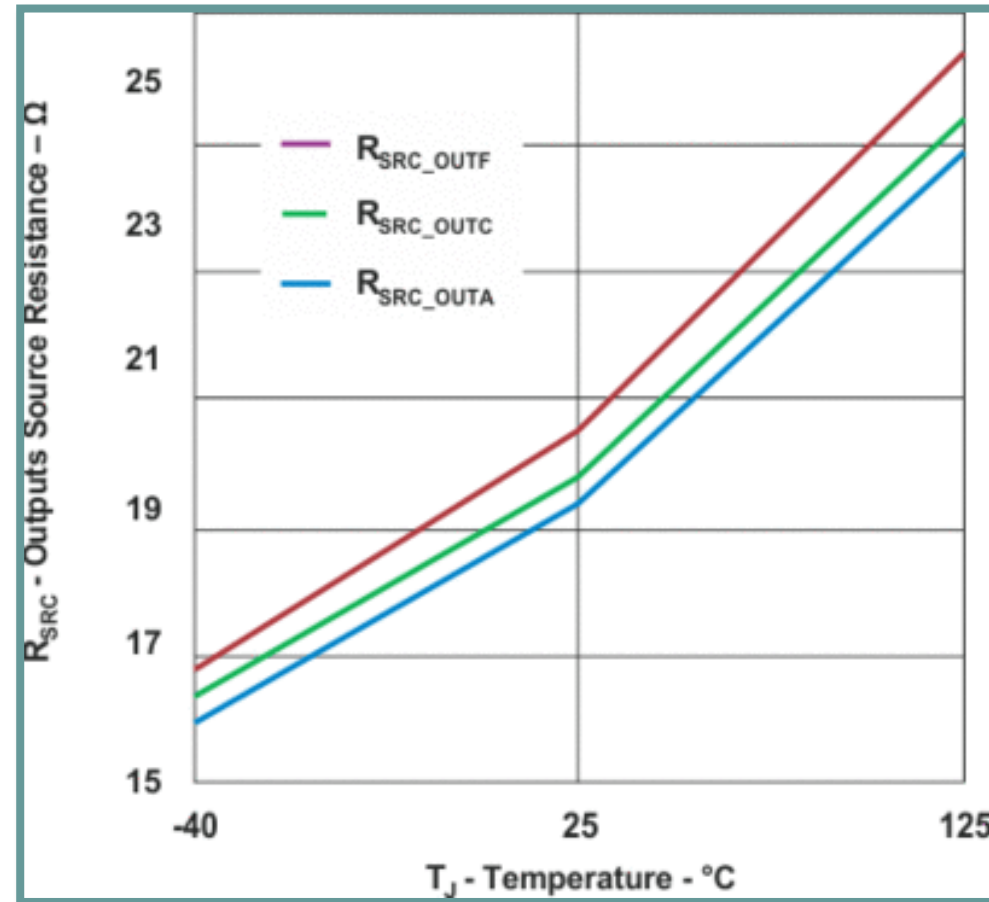
Fixed Temperature (FT)
Solid to Liquid with \uparrow Temp.
 \uparrow Temperature \rightarrow
 \uparrow Resistance
Triggered at certain
resistance

Heat Detector Theory

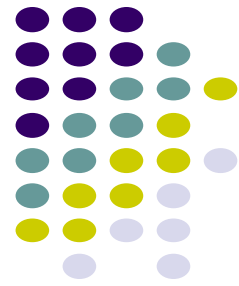


Rate-of-Rise (ROR)

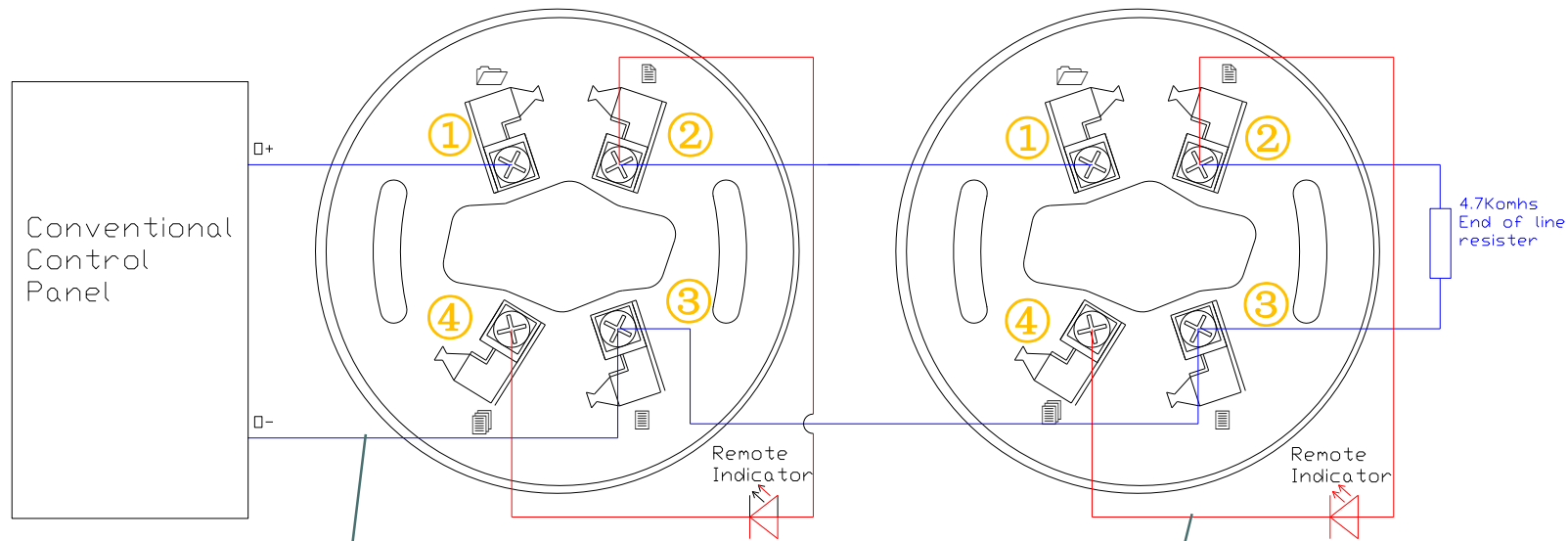
Simultaneously collecting
different temp in a period
measuring the slope



A2R:Thermal sensor (Thermocouple)



VG-6623/VG-6633 Wiring Diagram

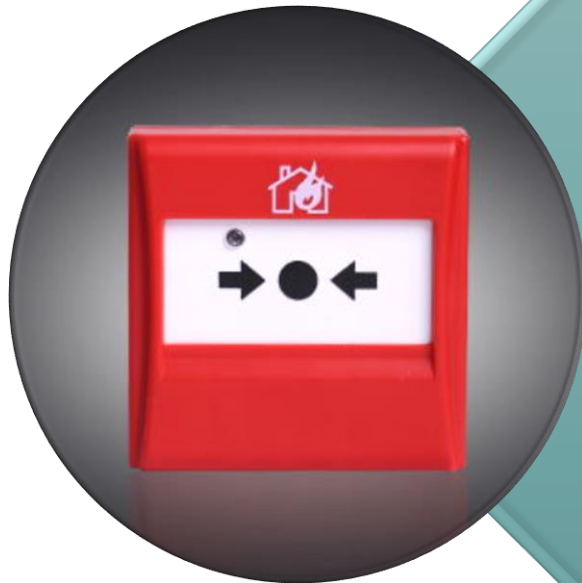
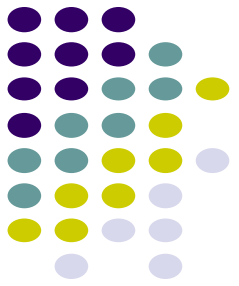


For Detection Line Wiring
 1-positive IN; 2-positive Out;
 3-negative IN/Out

For Remote Indicator Wiring
 2-positive OUT
 4-negative OUT

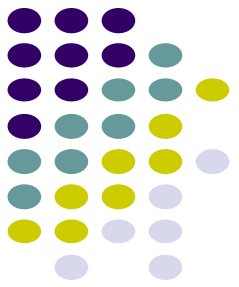
Important Notes:
Capacity:
 * Max.30 per line
Zone Fault:
 * 4.7K EOLR
 * Loose connection
Device Damaged:
 * Reversed Polarized

VG-6653 Manual Call Point



- * Non-breaking and Resettable
- * Flush-mount or Wall-mount
- * Plug-in structure and easy installation
- * Stylish appearance
- * Used in conventional line only
- * LPCB approval to EN54-11

VG-6653 Technical Data



Operating
Voltage:
DC12 ~ 28V

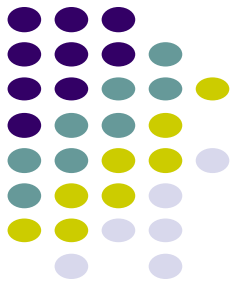
Standby
Current:
 $\leq 50\mu\text{A}$

Alarm Current:
 $\leq 20\text{mA}$

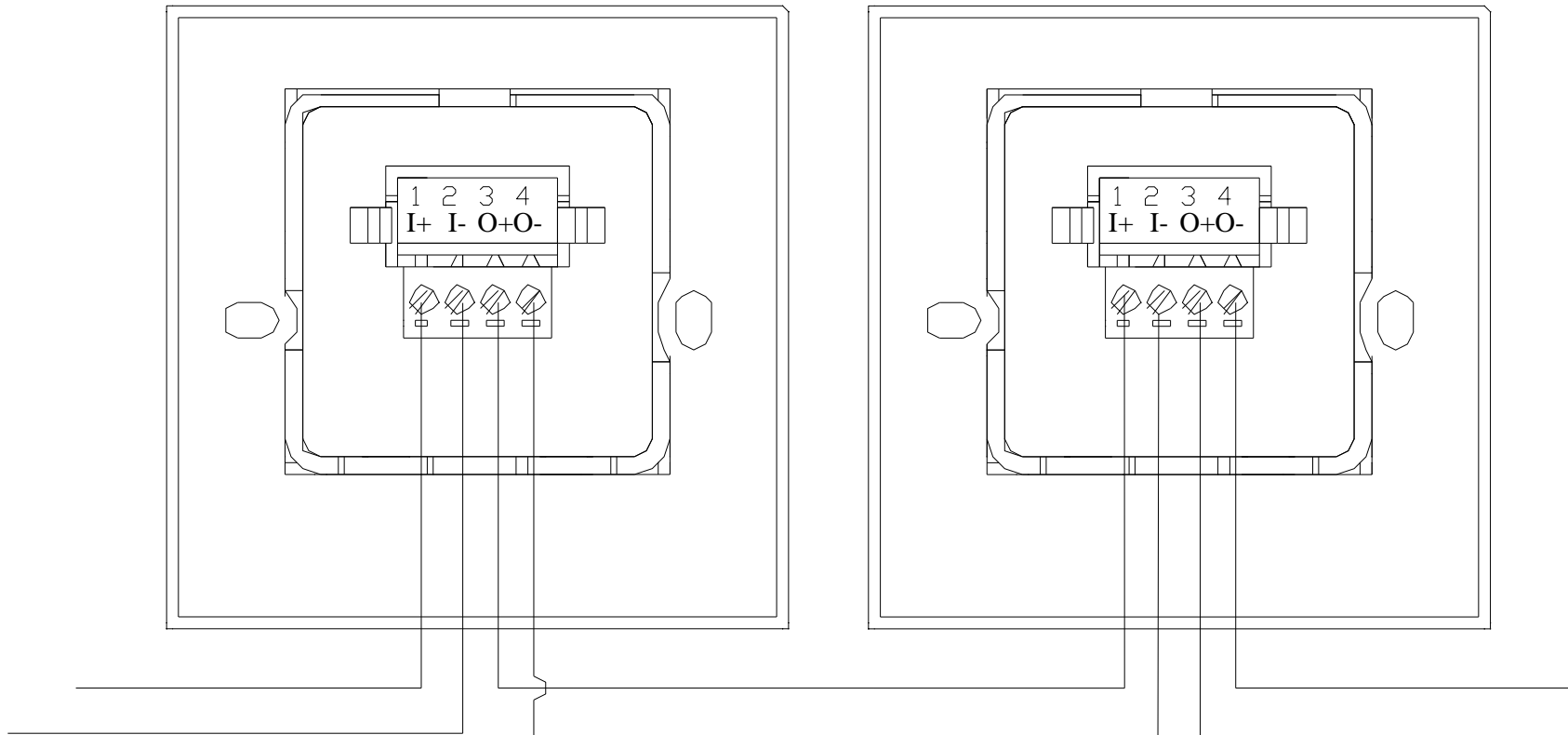
Dimension:
88*88*58mm

Type A, indoor
use

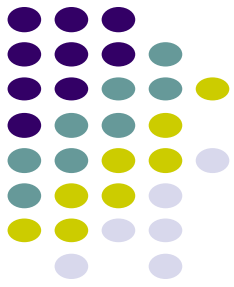
Resettable with
key



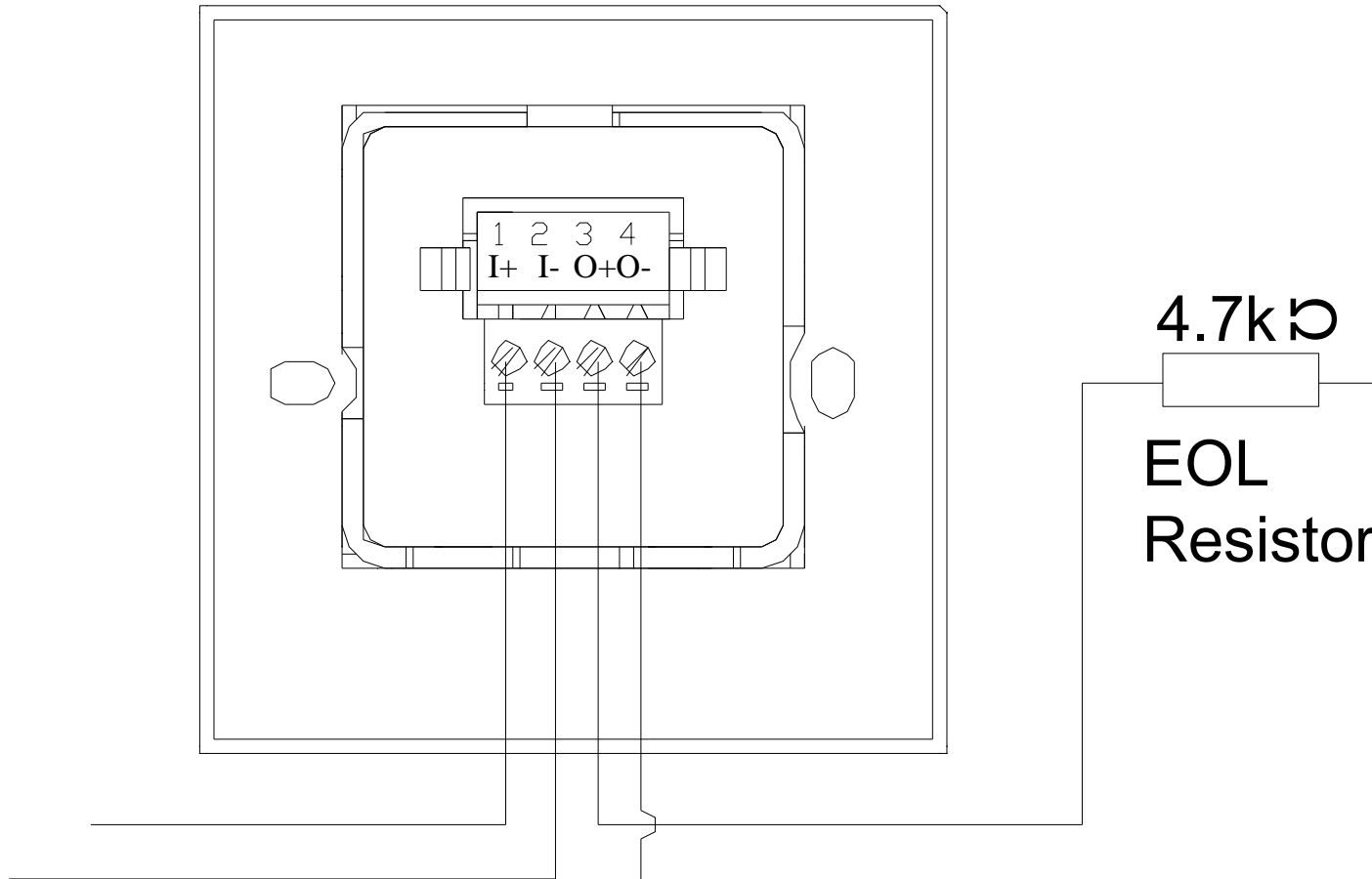
VG-6653 Wiring Diagram Between MCP



1-positive IN
2-negative IN
3-positive Out
4-negative Out

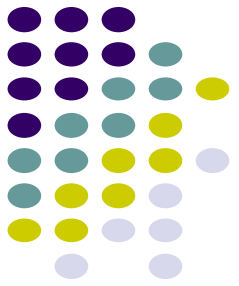


VG-6653 Wiring Diagram with EOLR



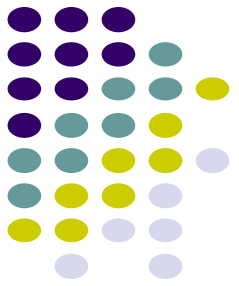
- 1-positive IN
- 2-negative IN
- 3-positive Out
- 4-negative Out

VG-6734 Sounder Strobe



- * Audial and visual warning
- * 16 tones available
- * No external power supply required
- * Fast responding time and low power consumption
- * Plug-in structure and easy installation
- * Used in conventional sounder circuit only
- * LPCB approval to EN54-3

VG-6734 Technical Data



Operating
Voltage:
DC20V ~ 28V

Alarm Current:
 $\leq 35\text{mA}$

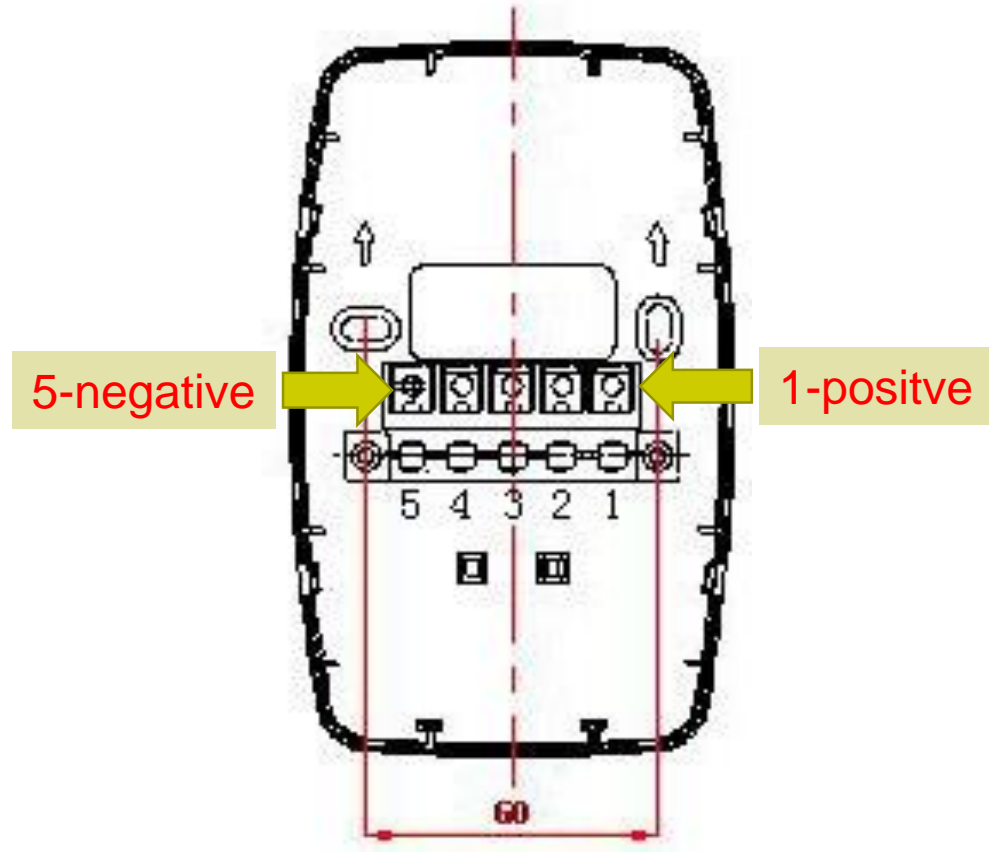
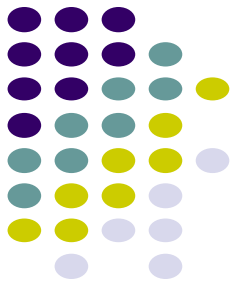
Alarm Tone:
16 types

Flashing
Frequency:
 $1.4 \times (1 \pm 20\%) \text{Hz}$

Circuit Capacity:
Max.16

Dimension:
152*91*49.5mm

VG-6734 Wiring Diagram

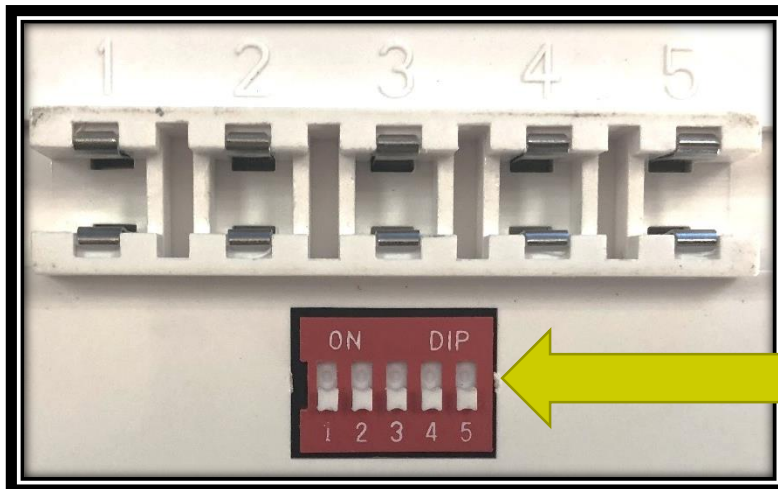
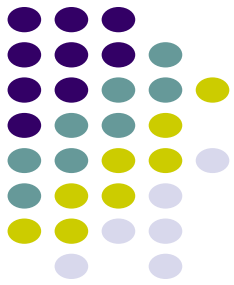


VG-6711 Conventional Sounder Base

Note:

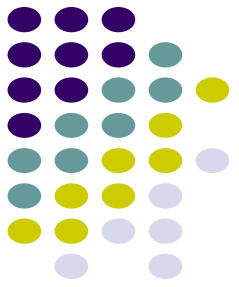
- Check the polarity(+/-)
- A 4.7K EOLR connected terminal 1 and 5
- Connected to sounder output on conventional panel
- Noise of Current – not compatible resistor

VG-6734 Setting of Tones



No. of the Switch Dip				Tone	Description
1	2	3	4		
0	0	0	0	01*	2400Hz -2900Hz @3Hz
1	0	0	0	02	2400Hz -2900Hz @9Hz
0	1	0	0	03	2400Hz
1	1	0	0	04	800Hz /970Hz @ 2Hz
0	0	1	0	05	970Hz
1	0	1	0	06	800Hz -970Hz @1Hz
0	1	1	0	07	970Hz 1s off/1s on
1	1	1	0	08	970Hz, 0.5s/630Hz, 0.5s
0	0	0	1	09	500Hz-1200Hz,3.75s/0.25s off
1	0	0	1	10*	500Hz -1200Hz×3, 3.5s on/0.5s off
0	1	0	1	11	2850Hz, 0.5s on/0.5s off×3/1.5s off
1	1	0	1	12	2850Hz 0.4s on,0.3s off
0	0	1	1	13	550Hz,0.7s/1000Hz,0.33s
1	0	1	1	14	500Hz -1200Hz @0.33Hz
0	1	1	1	15	1500Hz -2700Hz @3Hz
1	1	1	1	16	800Hz-970Hz@3Hz

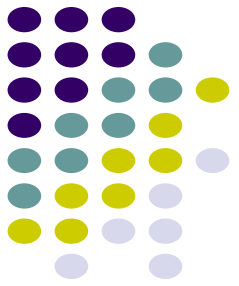
***Tones approved to EN54-3**



VG-6791 Remote Indicator



- * Ultra-bright red LED is used as the light source.
- * Remote Indicator of conventional type
- * Used directly with conventional detectors
- * Easy wiring and commission, reliable performance

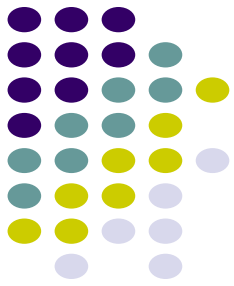


VG-6791 Technical Data

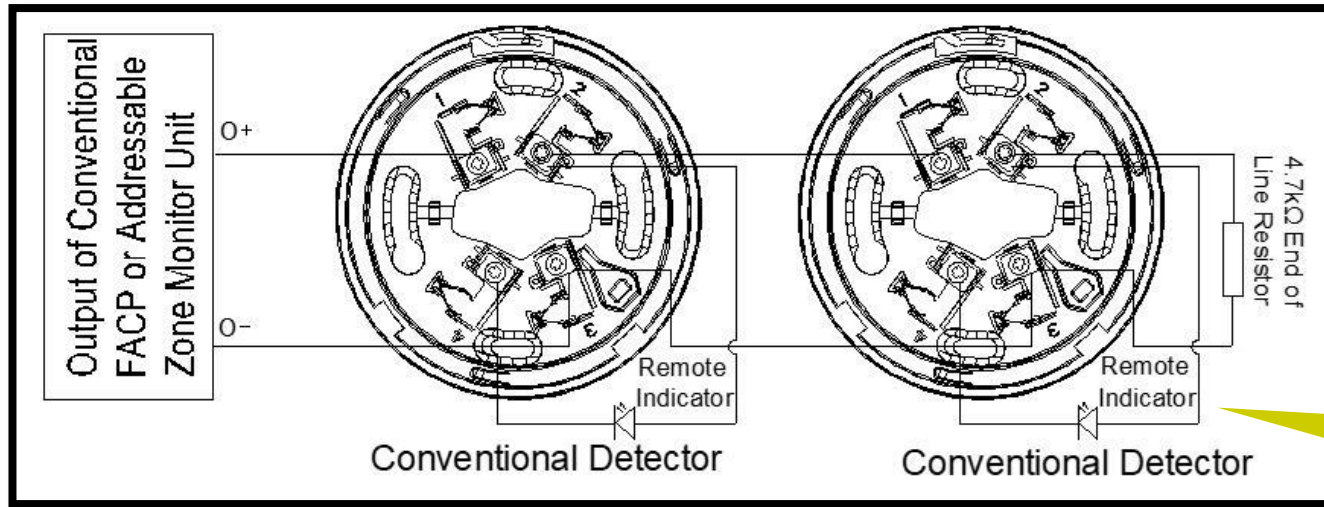
Operating
Voltage:
DC12V

Action
Current:
 $\leq 0.35\text{mA}$

Dimension:
D-50mm
H-25mm



VG-6791 Wiring & Installation

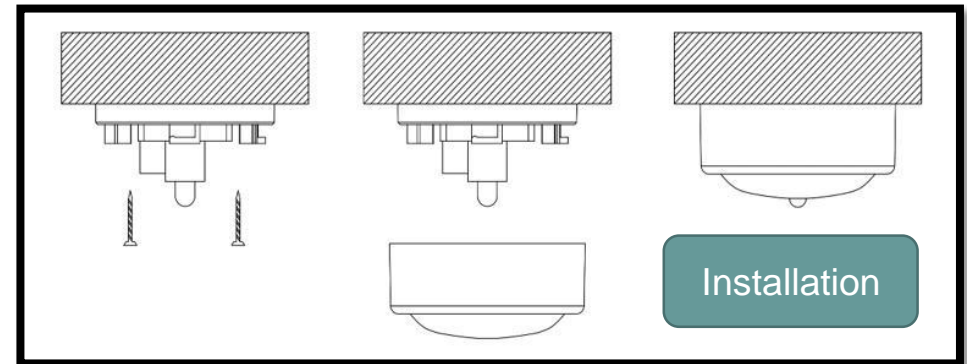
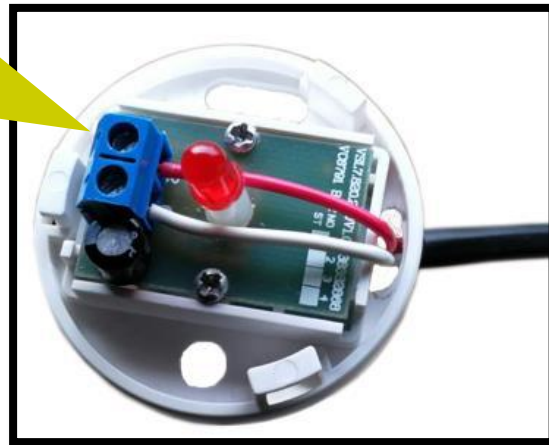


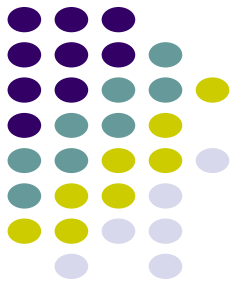
Note:

- Connected directly with detector base (2, 4)

Note:

- Remove the top cover
- Non-polarity of terminals (A1,A2)

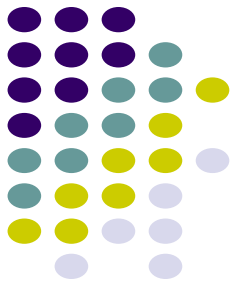




VG-6611S Alert Base



- * Used as an warning device to generate fire alarm;
- * Installation and wiring same as detector base;
- * Driven by detection circuit, no need for extra power line.



VG-6611S Technical Data

Operating
Voltage:
DC15~28V

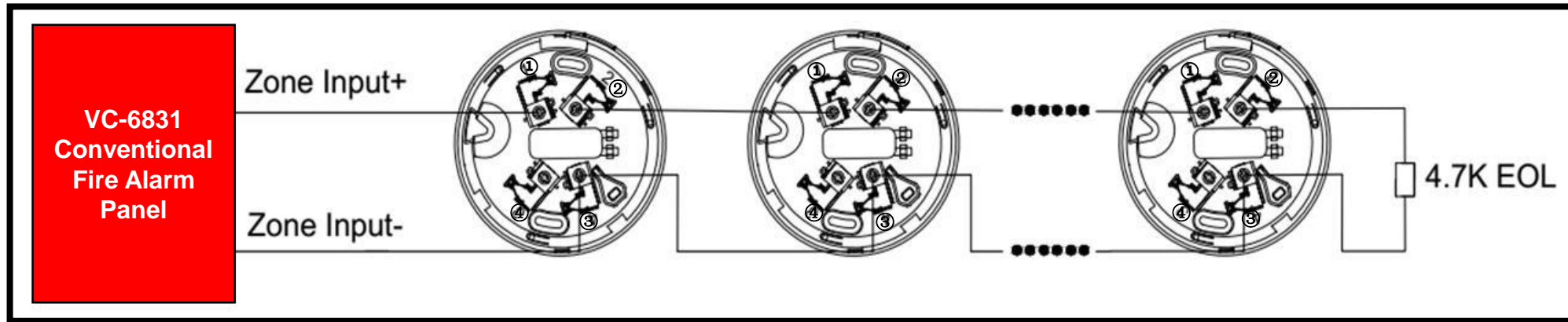
Action
Current:
 $\leq 4.0\text{mA}$

Sound
Volume:
>75dB

Dimension:
D-103mm
H-38mm



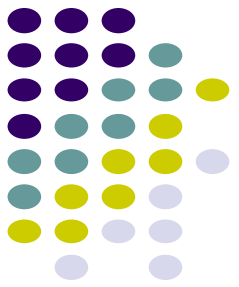
VG-6611S Wiring Diagram



Note:

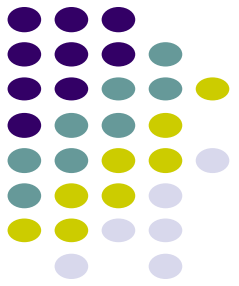
- Connected within Detection Line
- Wiring same as VG-6611
- Terminals (Positive IN-1, Positive OUT-2, Negative IN/OUT-3)
- Maximum 30 pieces

VG-6763 Repeater Panel



- * A remote unit of Zone Indication of Conventional Panel
- * Maximum 16 zones
- * Separate indications of Fire and Fault
- * Two buttons of MUTE and TEST

VG-6763 Technical Data



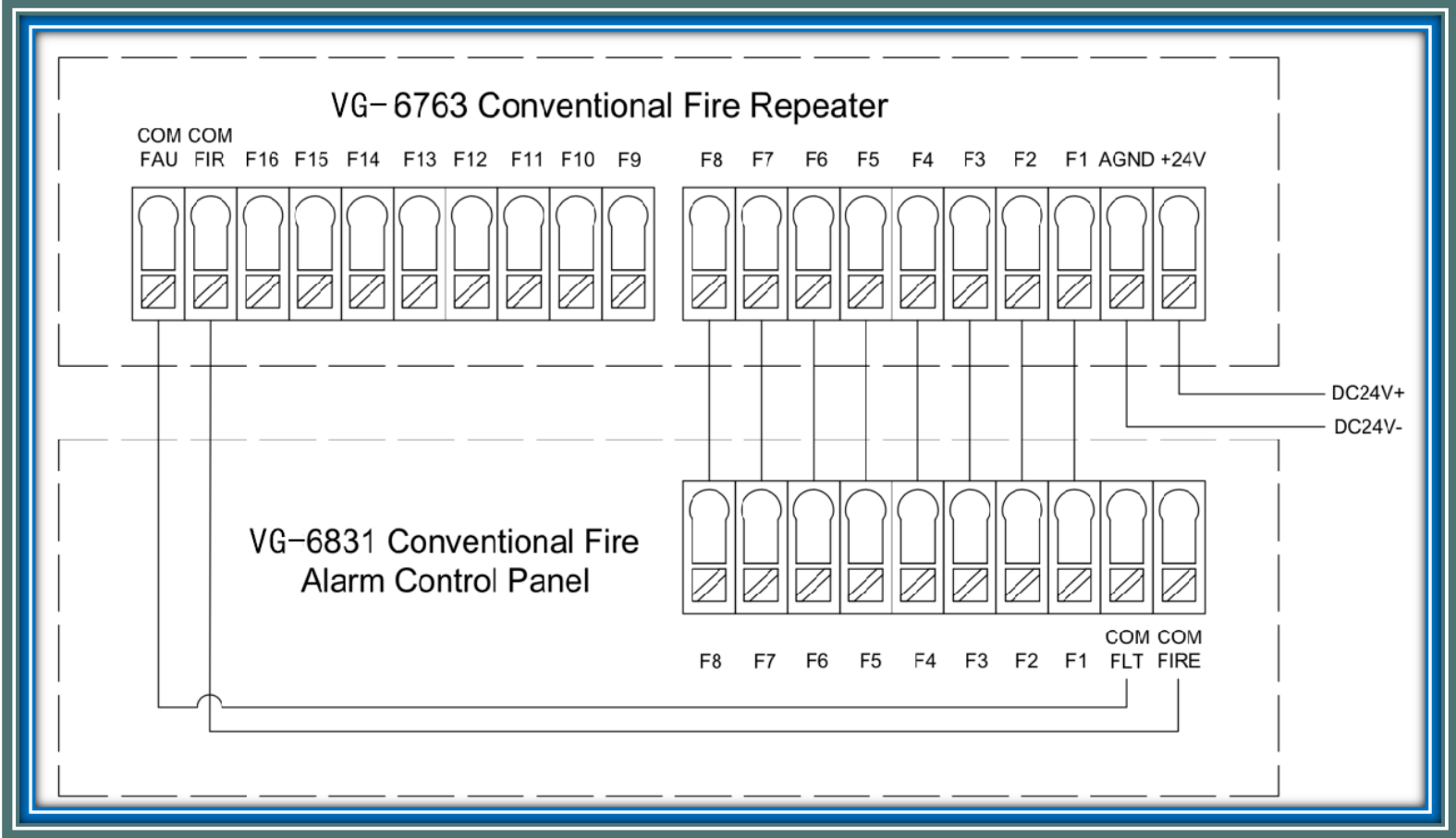
Operating
Voltage:
DC24V

Standby
Current:
 $\leq 6\text{mA}$

Alarm Current:
 $\leq 200\text{mA}$

Dimension:
190*130*40mm

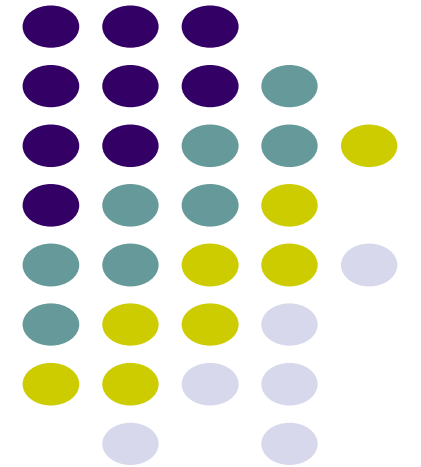
VG-6763 Wiring Diagram

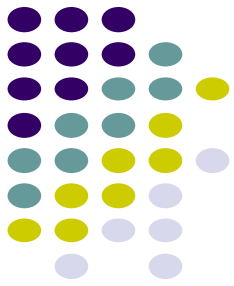


Conventional System



Conventional Panel

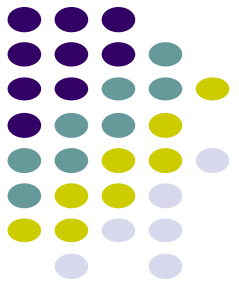




VG-6833 Conventional Fire Alarm Panel

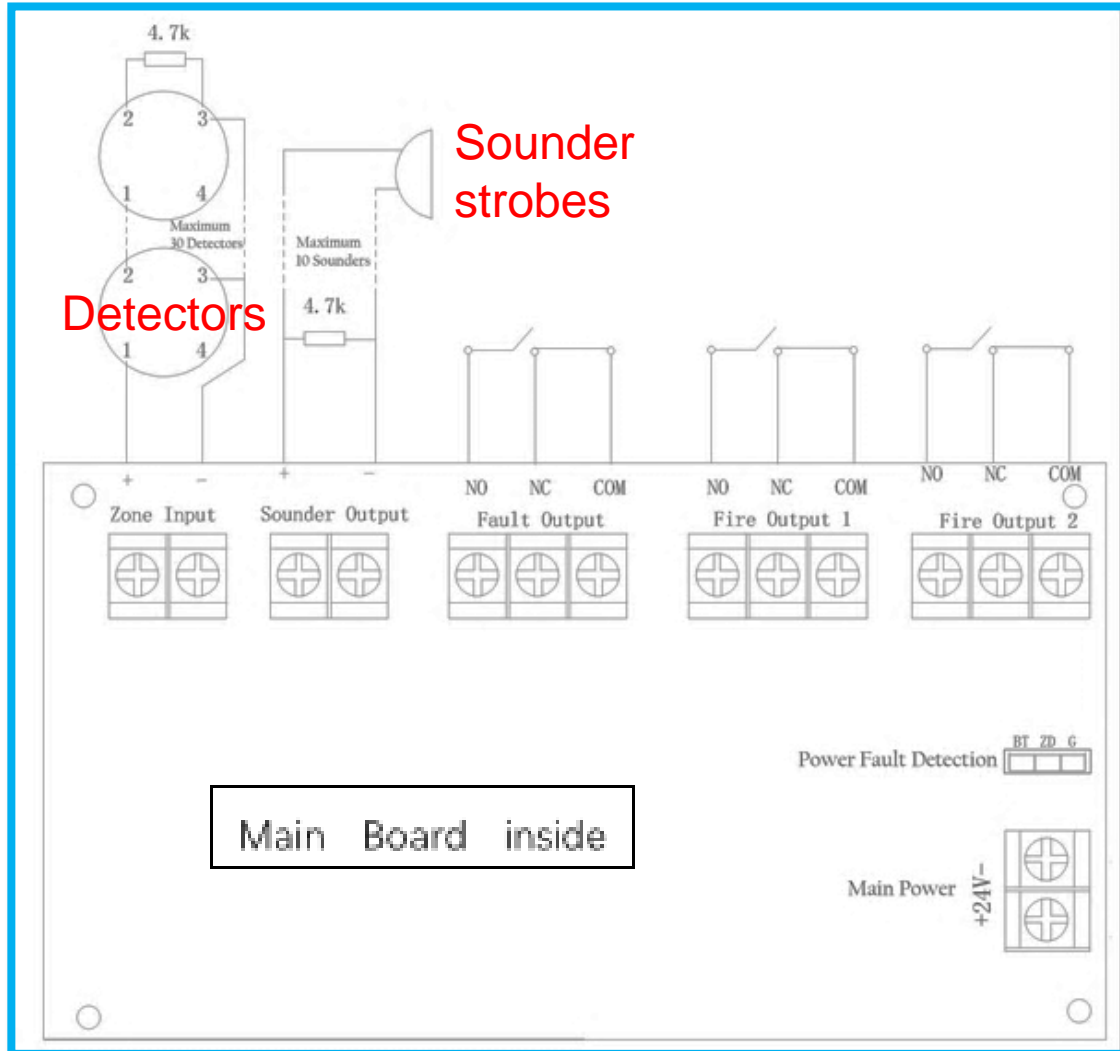
- * Mini-size of single zone conventional panel
- * Single conventional zone of Max. 30 filed devices
- * One sounder circuit of conventional sounder or alarm bell
- * Three passive contacts of fire and fault outputs
- * Two fire outputs logically respond to different alarm stages
- * One Fault output, and two fire outputs of two alarm levels
- * LED indicators and functional buttons available
- * Ideal design for small-size of projects

VG-6833 Specification



Main Power	Detection Line	Detection Line	Sounder Circuit	Fire Output	Fault Output
<u>Voltage:</u> 220V	<u>Voltage:</u> DC20~24V	<u>Resistance in fire:</u> 150 ~ 1.5kΩ	<u>Voltage:</u> DC20~24V	<u>Capacity:</u> 1A@24V	<u>Capacity:</u> 1A@24V
	<u>Standby Current:</u> 100mA	<u>EoL Resistor:</u> 4.7kΩ	<u>Current:</u> 1A	Volt-free Contact	
<u>Frequency:</u> 50Hz	<u>Alarm Current:</u> 1A	<u>Length:</u> 1000M	<u>EoL Resistor:</u> 4.7kΩ	Two Outputs	Volt-free Contact

VG-6833 Wiring Diagram



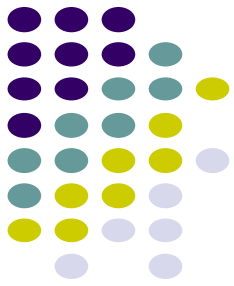
Note:

- Maximum 30 conventional devices of detector and call point
- 4.7kΩ resistor installed at the last device in a line
- A diode need to installed in the detector base in case of reversed wiring, but the detection capacity will be reduced
- Maximum 10 sounders in a sounder circuit

VG-6833 Operation Matrix

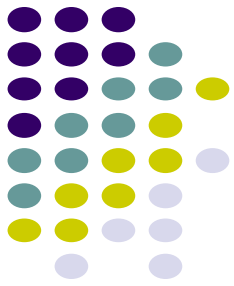


Mode	Action		Indicators									Evacuate switch	Remarks	
			Fire	Fire Output	Fault Output	Zone Fault	System Fault	Common Fault	Power Fault	Power Supply	Mute			Sounder
Normal	Normal operating		off	off	off	off	off	off	off	green	off	off	0	
Alarm	D.L≤500M	Only one detector detects fire (Level 1)	flashes in red	flashes in red	off	off	off	off	off	green	off	illuminates in green	0	"Fire Output 1" and "Sounder Output" activated
		More than one detectors detect fire	illuminates in red	illuminates in red	off	off	off	off	off	green	off	illuminates in green	0	"Fire Output 1", "Fire Output 2" and "Sounder Output" activated
	D.L>500M	One or Two detector detects fire (Level 1)	flashes in red	flashes in red	off	off	off	off	off	green	off	illuminates in green	0	"Fire Output 1" and "Sounder Output" activated
		More than two detectors detect fire	illuminates in red	illuminates in red	off	off	off	off	off	green	off	illuminates in green	0	"Fire Output 1", "Fire Output 2" and "Sounder Output" activated
	Press "Mute" button		illuminates in red	illuminates in red	off	off	off	off	off	green	green	illuminates in green	0	Turns off the panel alarm tone
Fault	Press "Mute" button		off	off	red	yellow	off	yellow	off	green	green	off	0	"Fault Output" activated and panel generates fault tone
	Press "Mute" button		off	off	red	off	off	yellow	off	green	green	flashes in green	0	
	Press "Mute" button		off	off	red	off	off	yellow	yellow	green	green	off	0	
	Press "Mute" button		off	off	red	off	off	yellow	yellow		green	off	0	
	Press "Mute" button		off	off	red	off	yellow	yellow	off	green	green	off	0	
Evacuate on	Switch "Evacuate" key points at "I"		off	off	off	off	off	off	off	green	off	illuminates in green	I	Activates all the outputs of "Sounder Output, Fault Output, Fire Output1 and Fire Output2",
Short circuit	Press "Mute" button		off	off	red	yellow	off	yellow	off	green	green	off	0	"Fault Output" activated and panel generates fault tone



VG-6831 Conventional Fire Alarm Panel

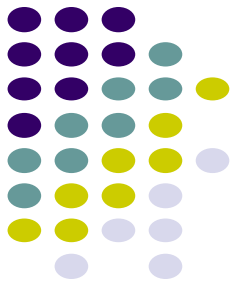
- * High quality and reliable performance
- * 2/4/8/16 detection zones
- * Up to 25 devices for each zone
- * Up to 4 programmable supervised sounder circuits
- * LED indication and key buttons
- * One man walk-test and zone isolate facility
- * DAY/NIGHT mode switchable
- * Fault buzzer mute facility



VG-6831 Conventional Fire Alarm Panel

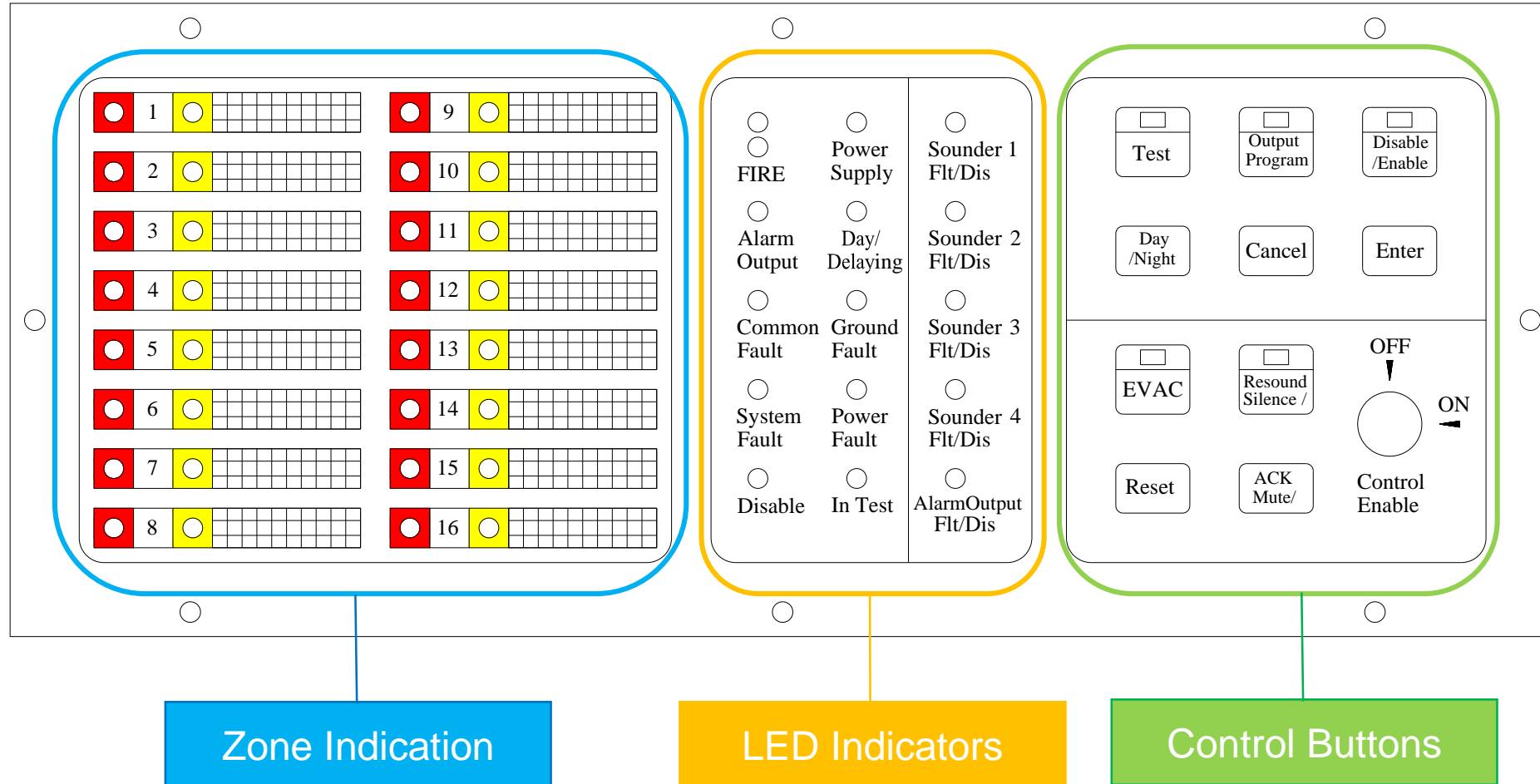
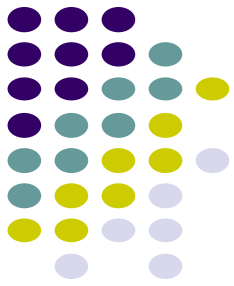
- * Fully programmable using simple menu options
- * Keypad entry to a wide range of engineering functions
- * Optional signal output board available for extension
- * Three access levels settable via Key and DIP switch
- * SMT and Microprocessor controller design
- * Two wire system to reduce cabling and installer friendly
- * Compatible with wide range of conventional devices
- * LPCB approval to EN54-2 & EN54-4

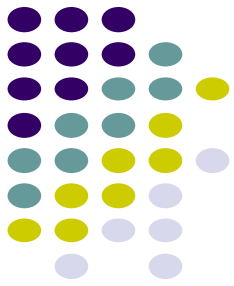
VG-6831 Specification



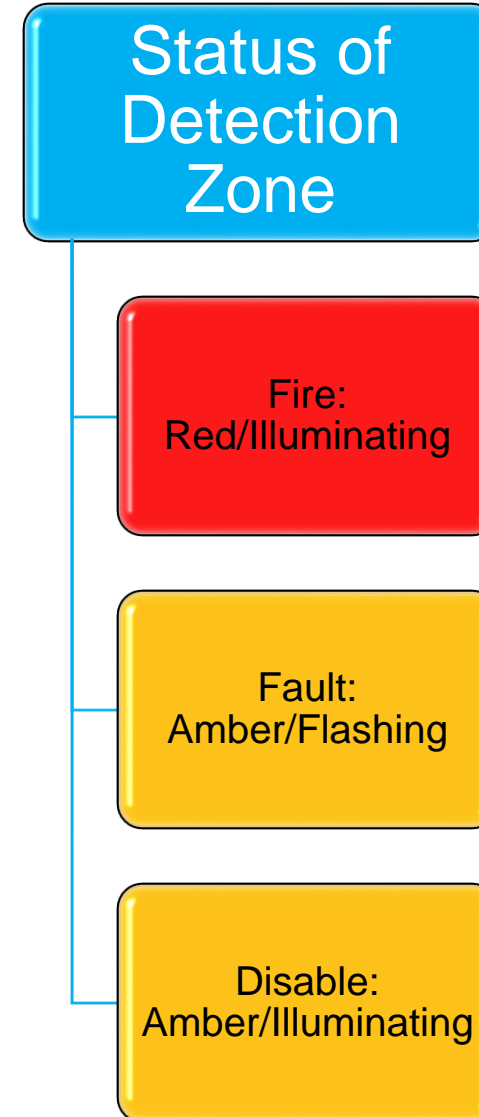
Main Power	Detection Line	Detection Line	Sounder Circuit	Alarm Output	Fault Output
<u>Voltage:</u> 100~120V 200~240V	<u>Voltage:</u> DC15~28V	<u>Resistance in fire:</u> 150 ~ 1.5kΩ	<u>Voltage:</u> DC18~28V	<u>Voltage:</u> DC18~28V	<u>Capacity:</u> 1A@24V
	<u>Standby Current:</u> 6mA	<u>EoL Resistor:</u> 4.7kΩ	<u>Current:</u> 300mA/each	<u>Current:</u> 300mA	
<u>Frequency:</u> 50/60Hz	<u>Alarm Current:</u> 400mA	<u>Length:</u> 1000M	<u>EoL Resistor:</u> 4.7kΩ	<u>EoL Resistor:</u> 4.7kΩ	Volt-free Contact

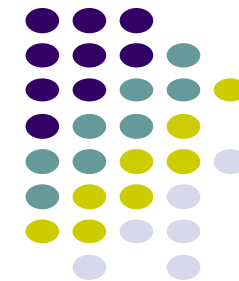
VG-6831 Panel Front



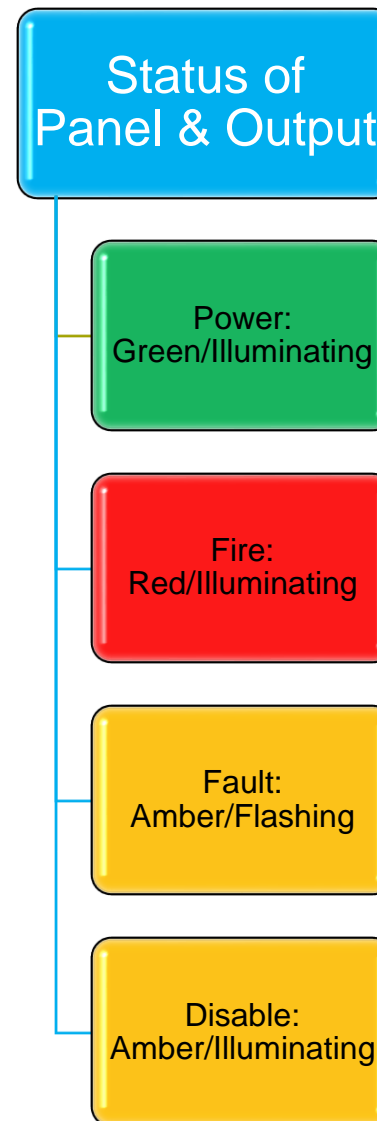


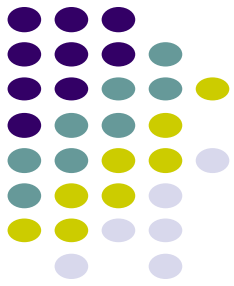
VG-6831 Zone Indication



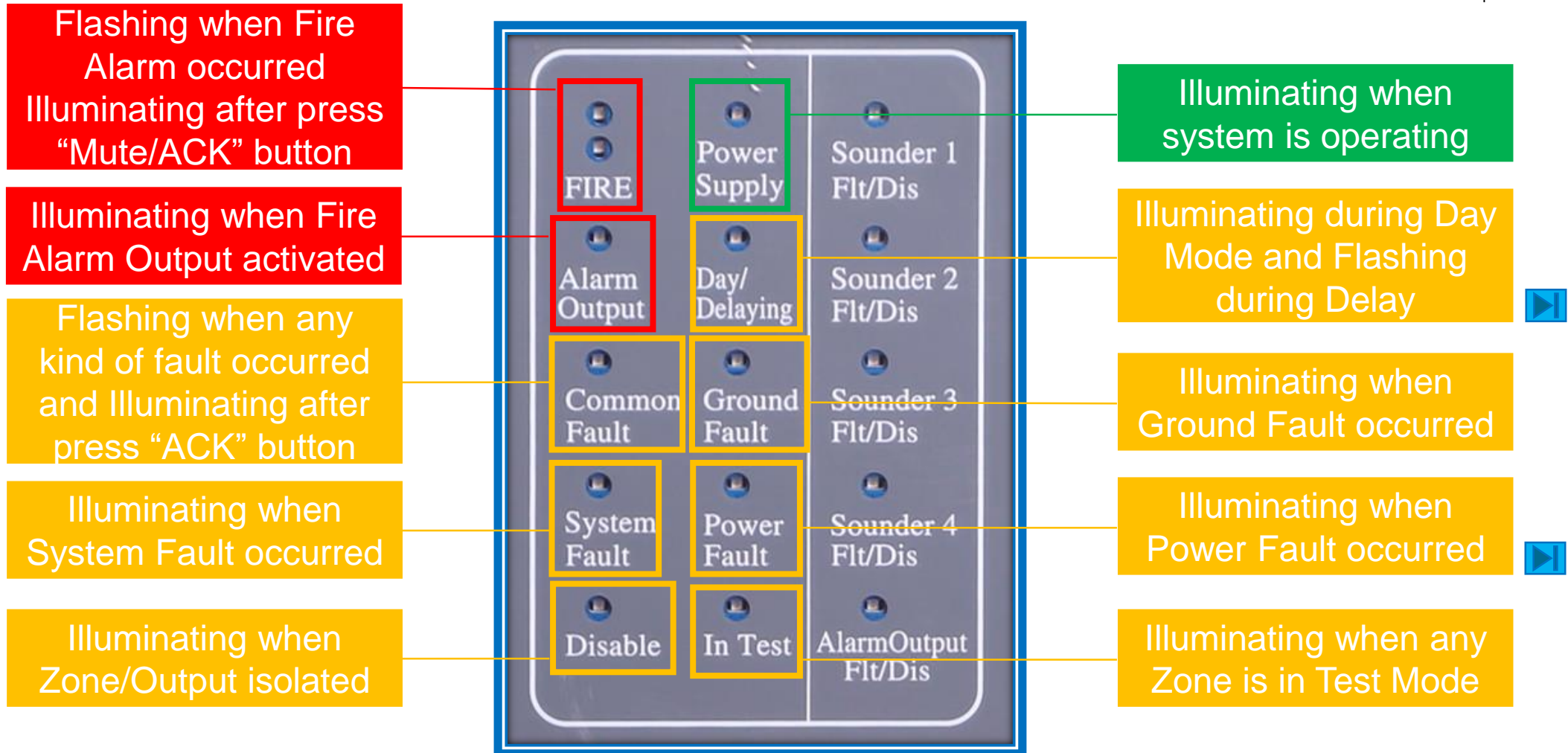


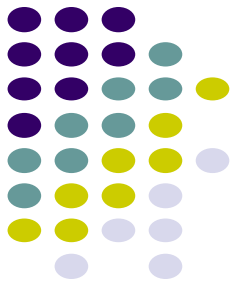
VG-6831 LED Indicators



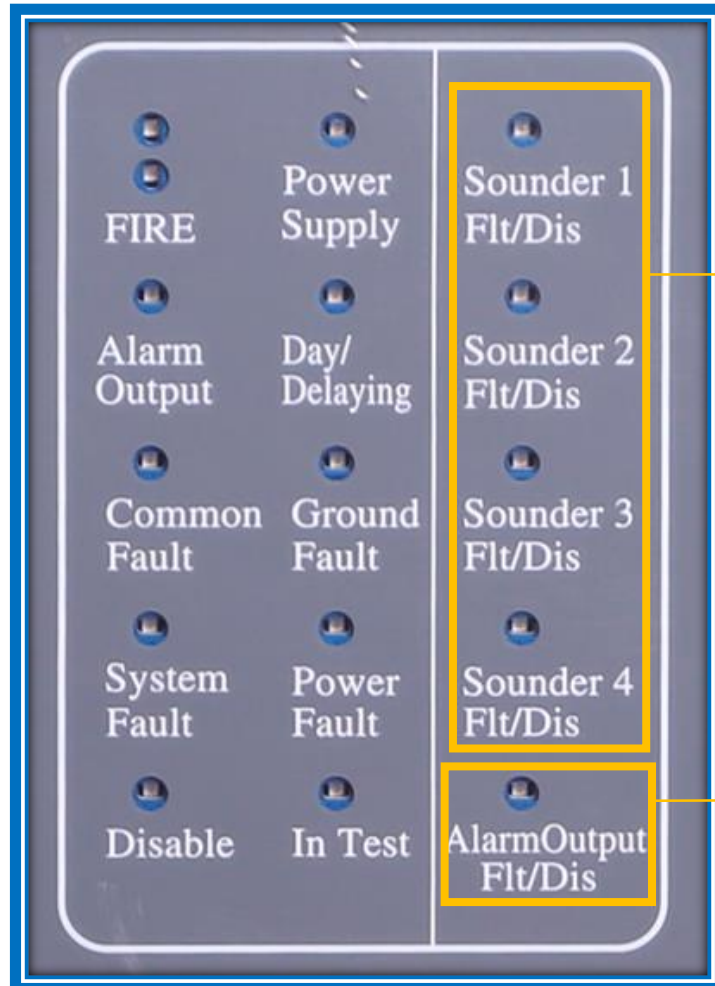


VG-6831 LED Indicators [Panel]



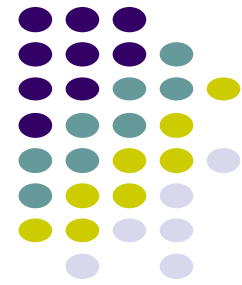


VG-6831 LED Indicators [Output]

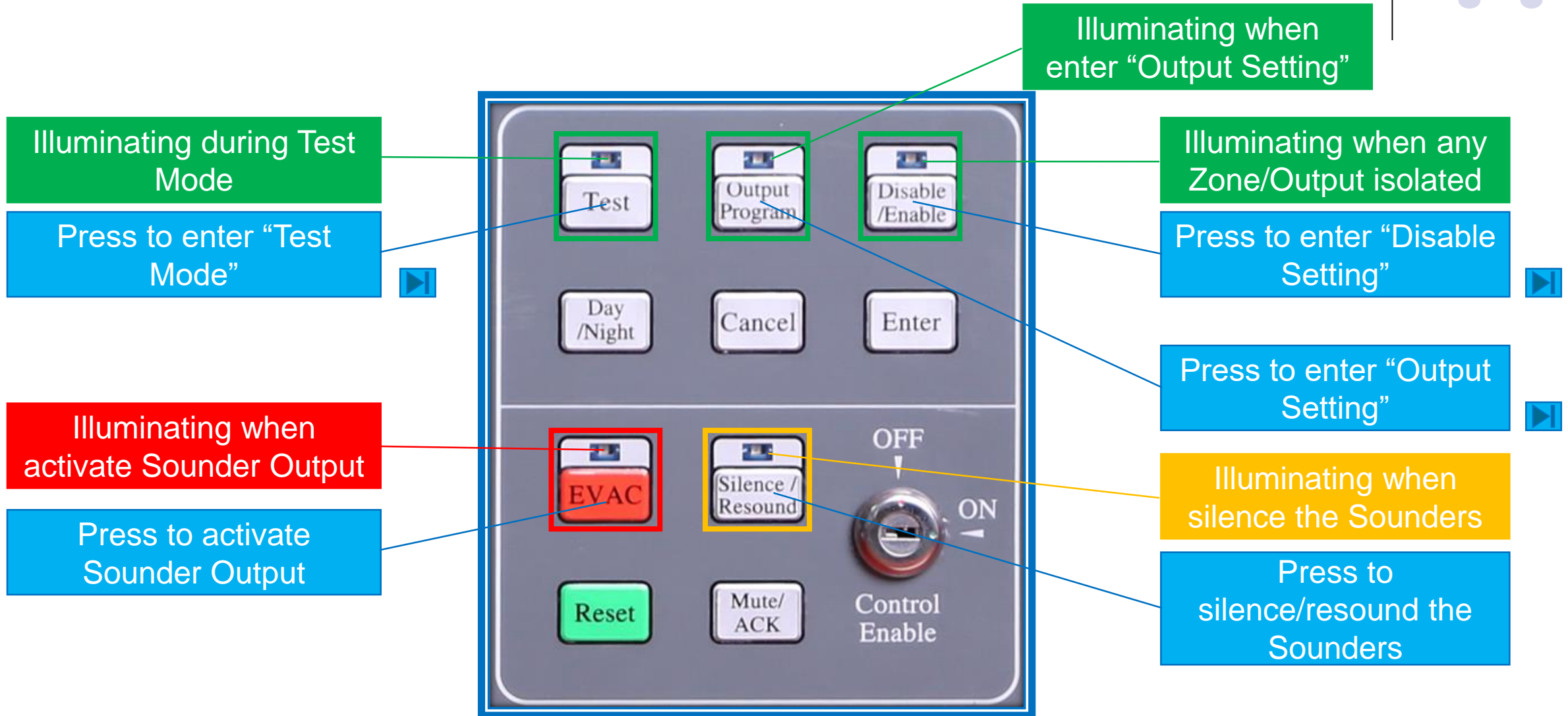


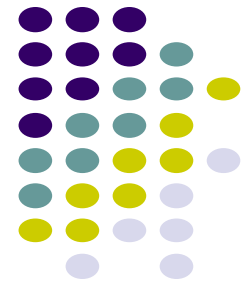
- Illuminating when the Sounder Output is disabled.
- Flashing when there is fault occurred on Sounder Output.

- Illuminating when the Alarm Output is disabled.
- Flashing when there is fault occurred on Alarm Output.

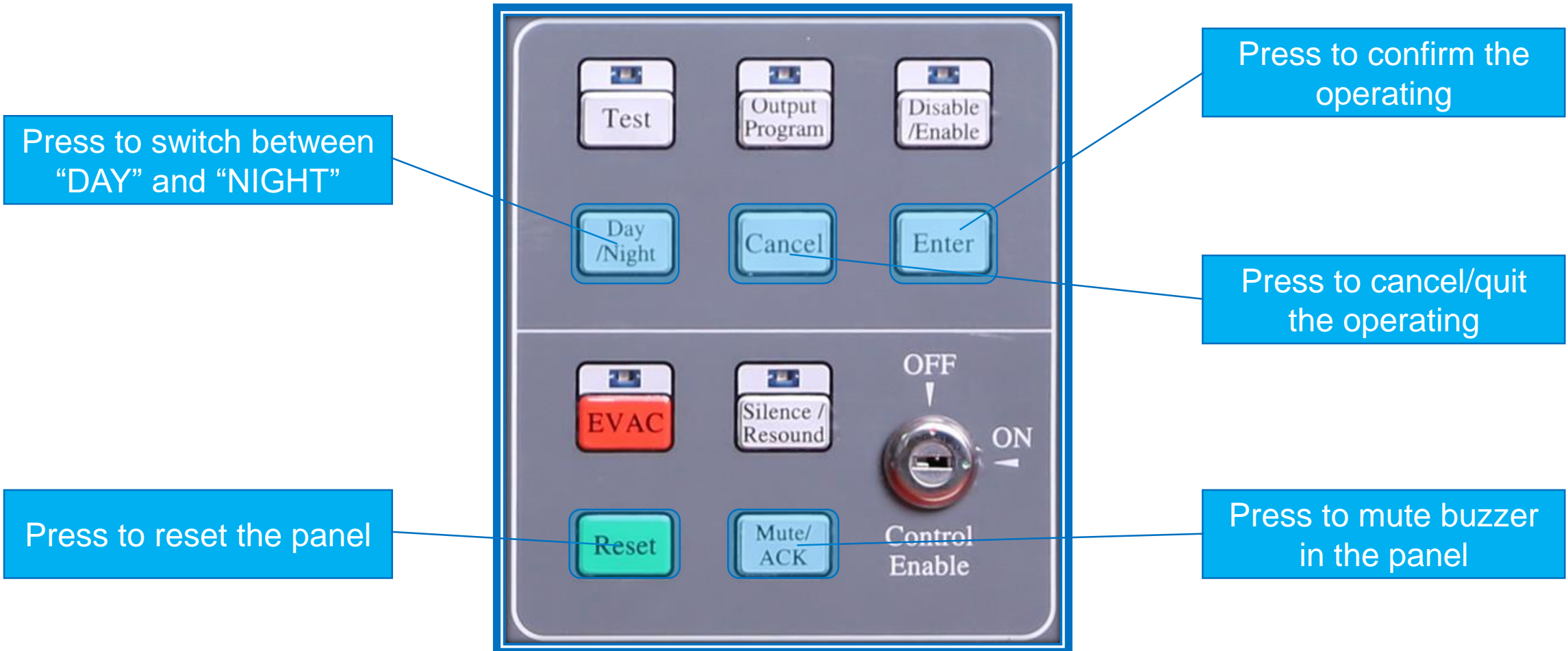


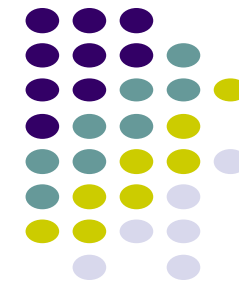
VG-6831 Control Buttons [Function Keys]



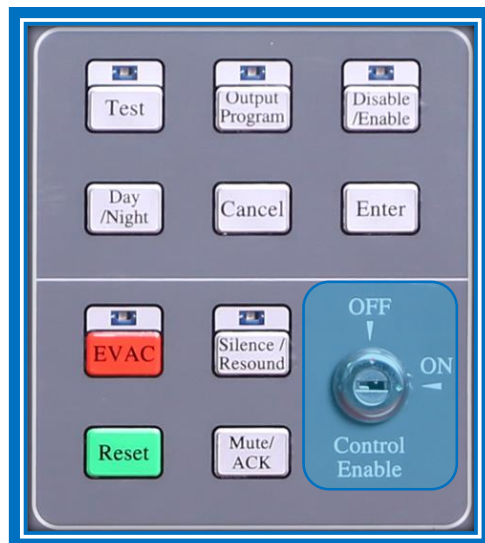


VG-6831 Control Buttons [Operation Keys]

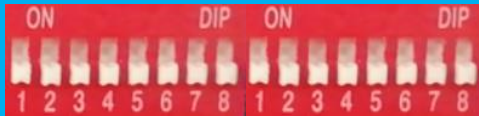




VG-6831 Access Level




Access Level I

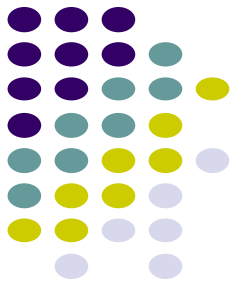
- Operation of “Mute/ACK” available only
- DIP switch as 

Access Level II

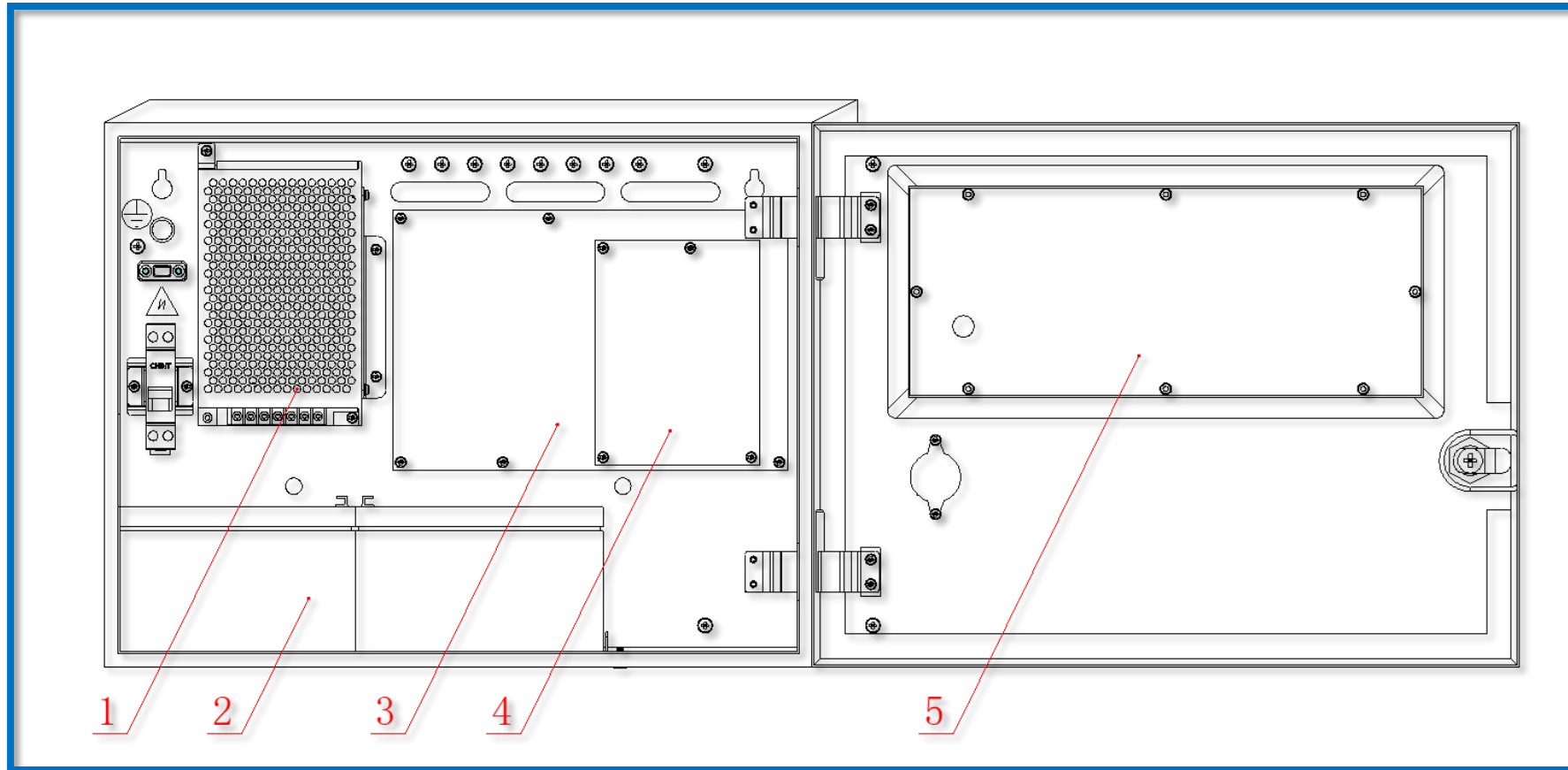
- Operation of “Disable/Test/Reset/EVAC/Silence”
- DIP switch as 

Access Level III

- All operations and settings are available
- DIP switch as 

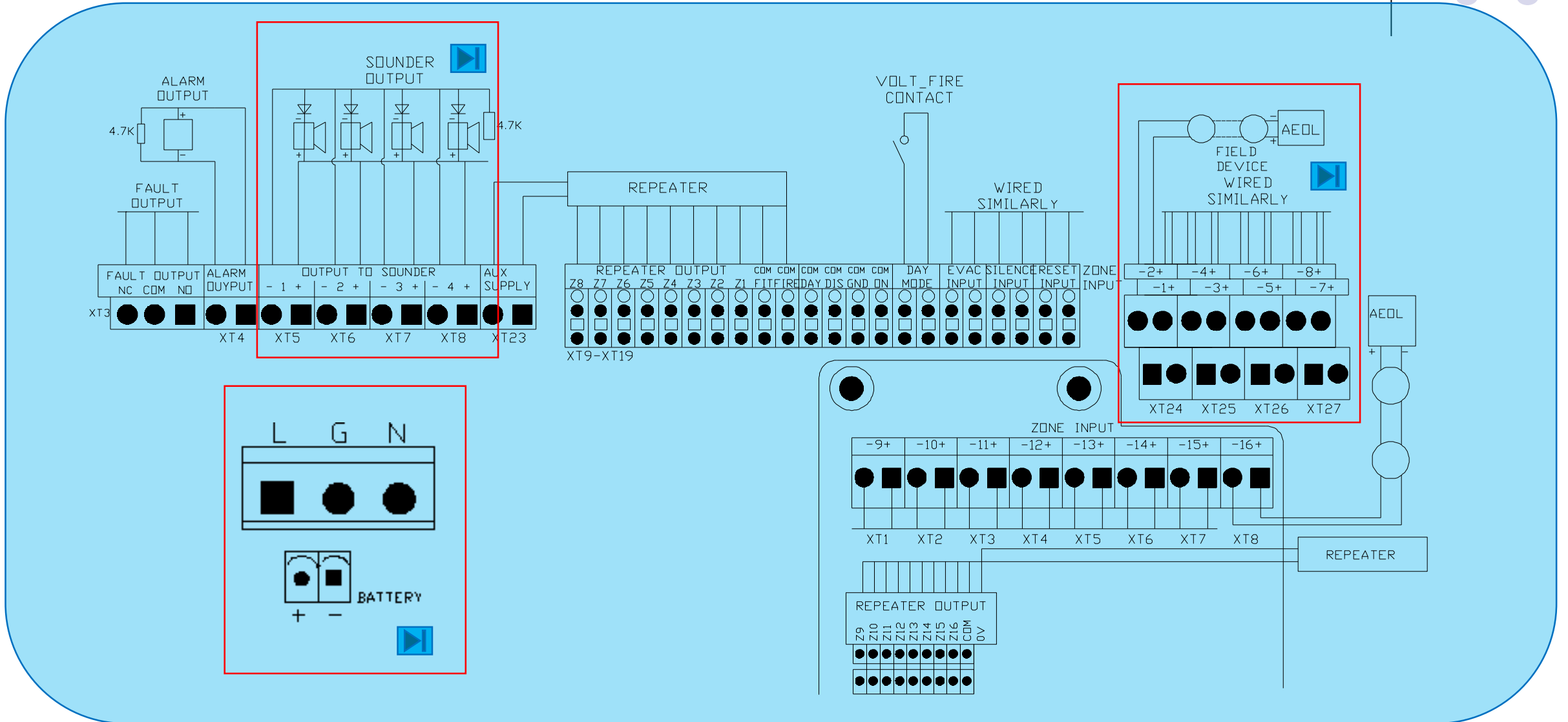
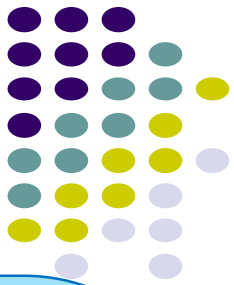


VG-6831 General Structure

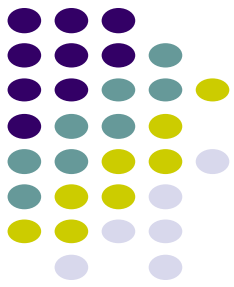


- ① AC/DC Power Supply ② Batteries ③ Main Board include power board
④ Relay Board with signal outputs ⑤ Display & Control Board


VG-6831 Wiring Diagram [Overview]

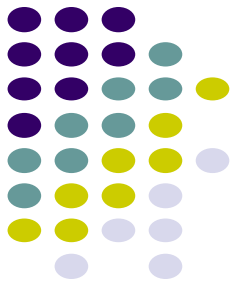


VG-6831 Wiring Diagram [Terminals]

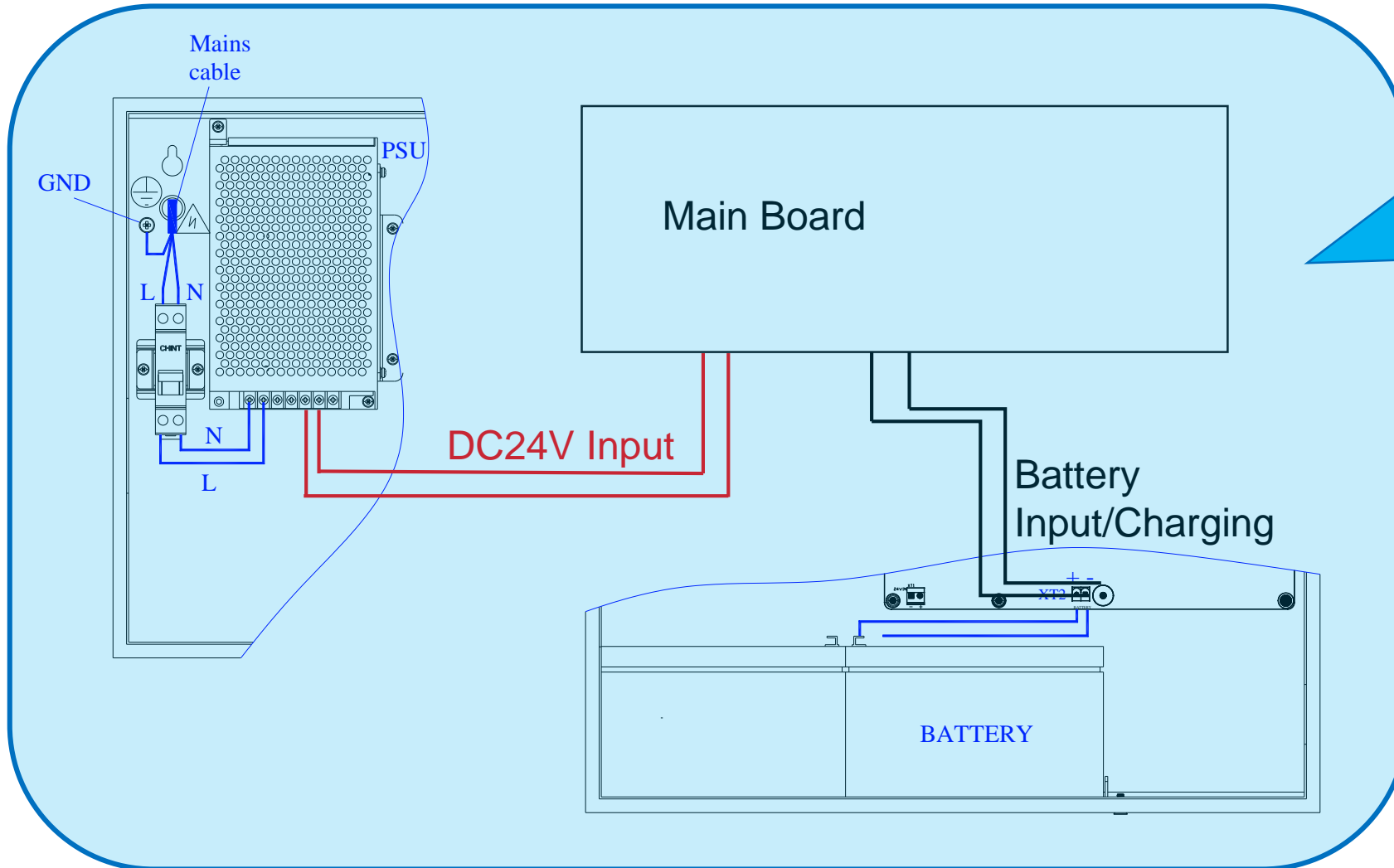


FAULT OUTPUT	Fault output (volt-free)
ALARM OUTPUT	Fire alarm output (300mA)
OUTPUT TO SOUNDER	Sounder output (Max.800mA)
AUX SUPPLY	Auxiliary power output
ZONE INPUT	Input of detection zone
BATTERY	Terminals of battery
L / G / N	Terminals of main power
DAY MODE	Terminals of Day/Night Mode
EVAC INPUT	Input of remote EVAC
SILENCE INPUT	Input of remote SILENCE
RESET INPUT	Input of remote SESET

REPEATER OUTPUT	Output terminals for Conventional Repeater 
Z1~Z8	Zone terminals
COM FLT	Fault terminal
COM FIRE	Fire terminal
COM DAY	Day-mode terminal
COM DIS	Disable terminal
COM 0V	Negative terminal of Power
PW ON	Positive terminal of Power



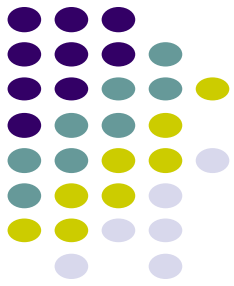
VG-6831 Wiring Diagram [Power]



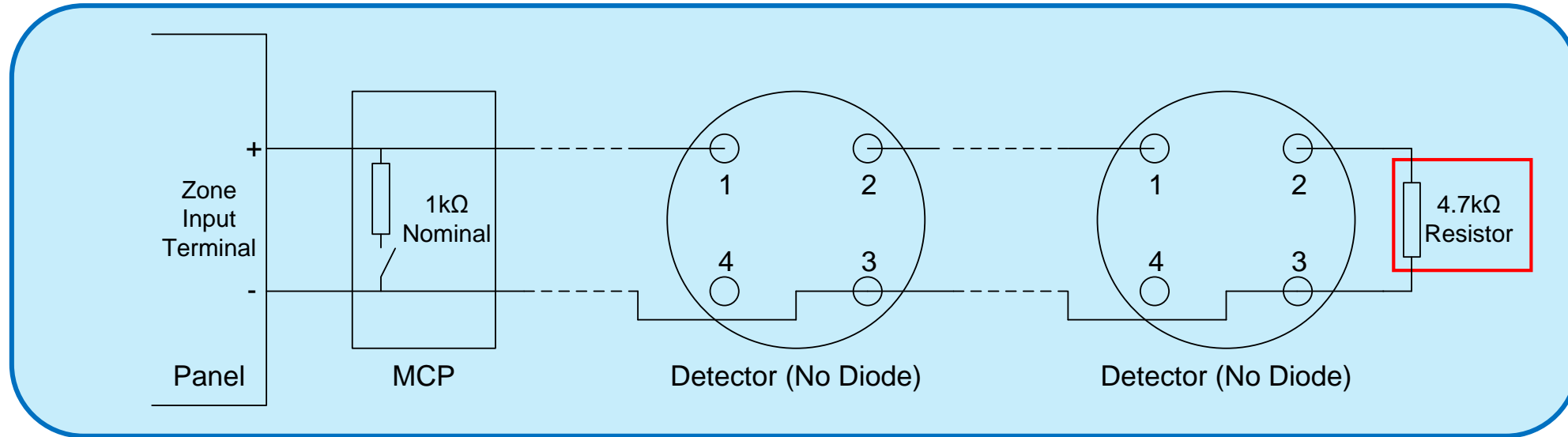
Note:

- Make sure the power is switched off.
- Check the Polarity(+/-)
- Make sure the live and neutral line connect at right terminal and firmly





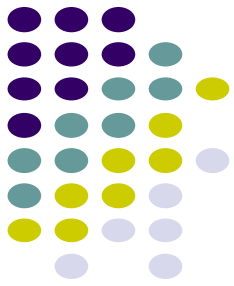
VC-6831 Wiring Diagram [Detection Line]



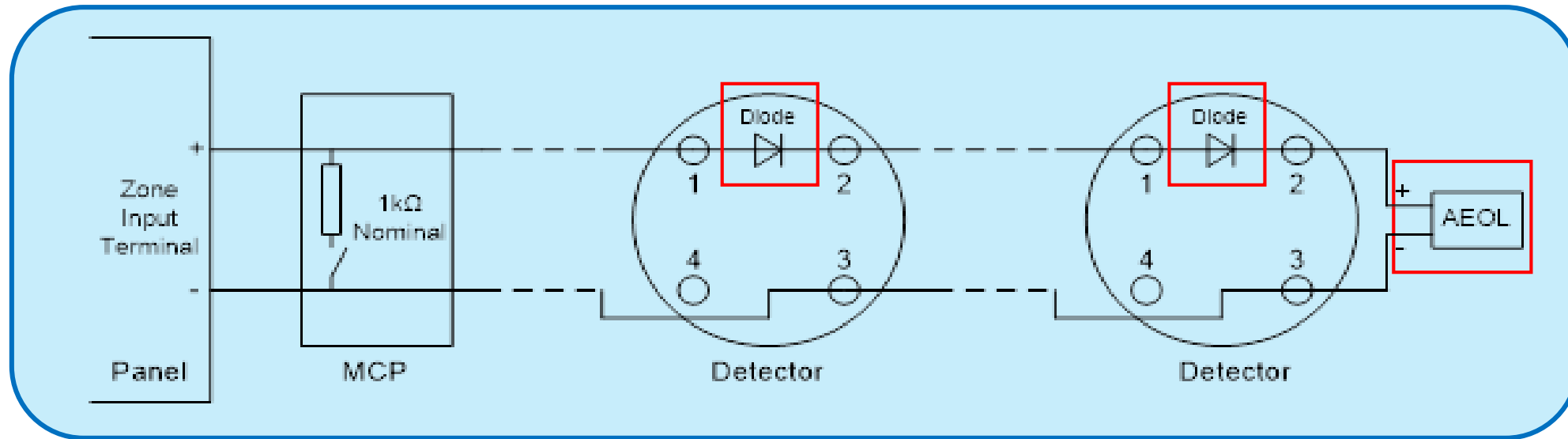
Device capacity of each zone	Max. 32 pcs
Detector capacity of each zone	Max. 32 pcs
MCP activated at the same time of each zone	Max. 5 pcs
Alarm current of detection line of each zone	Max. 400 mA

Note:

- MCP installed at the front of detector
- No Diode at the detector base
- 4.7kΩ Resistor at the end of line



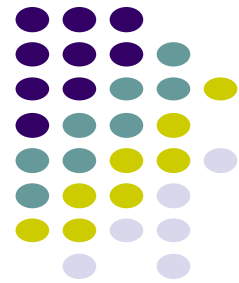
VG-6831 Wiring Diagram [Detection Line]



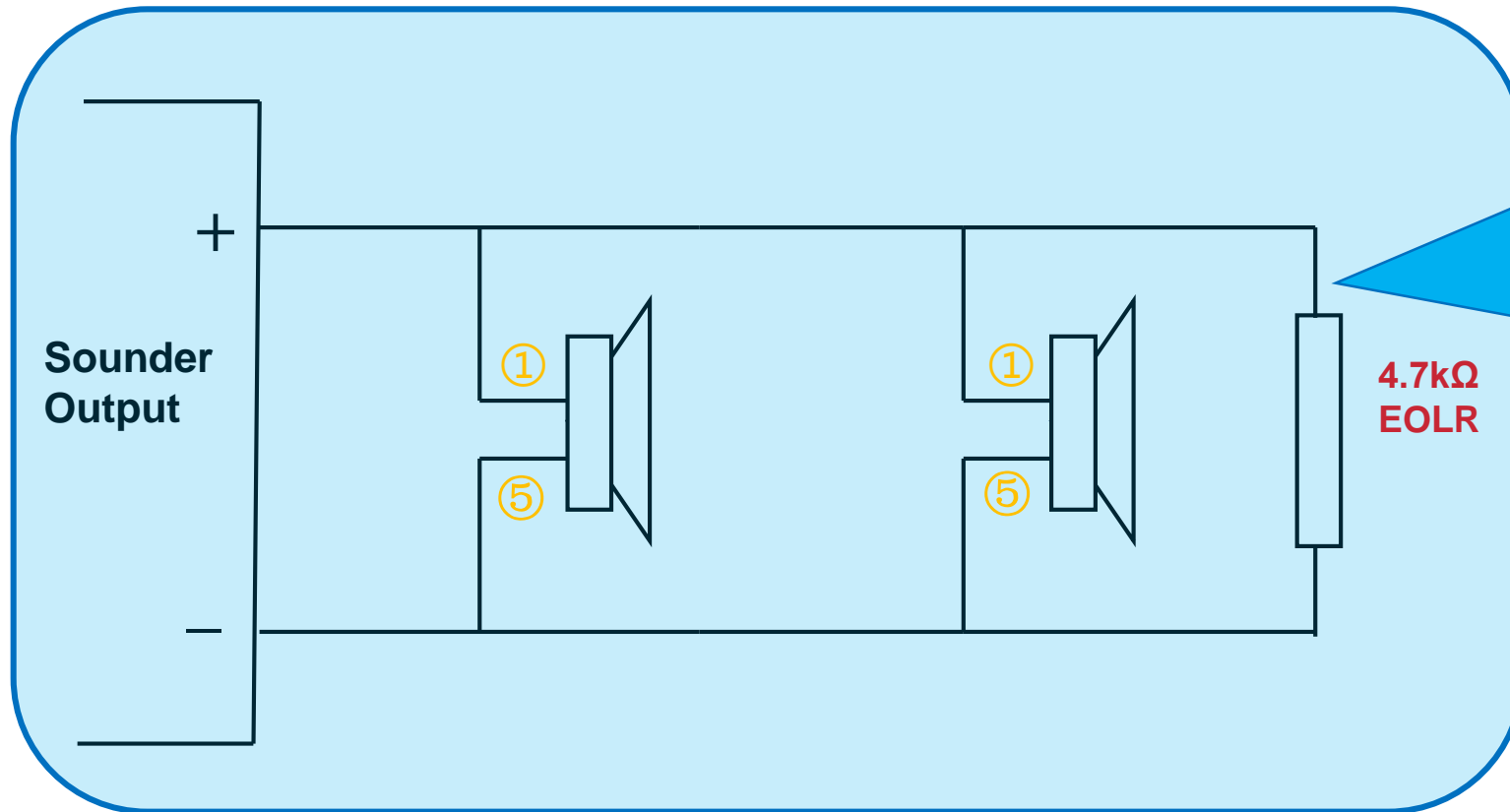
Device capacity of each zone	Max. 32 pcs
Detector capacity of each zone	Max. 32 pcs
MCP activated at the same time of each zone	Max. 5 pcs
Alarm current of detection line of each zone	Max. 400 mA

Note:


- MCP installed anywhere of the line
- Diode required at each detector base
- Active End of Line required at the end of detection line



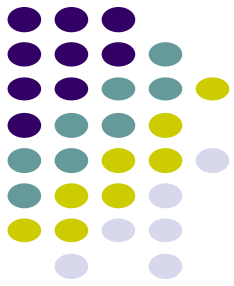
VG-6831 Wiring Diagram [Sounder Circuit]



Note:

- Be careful with the polarity(+/-) of each line
- 4.7K EOLR need to be connected so as to avoid faults on the FACP
- Each Sounder Output allows 16 sounders
- Maximum 800mA for one Sounder Output
- Maximum 24 sounders for 4 Sounder Output
- Maximum 1.2A for 4 Sounder Outputs
- Different setting mode 





Using Device of other brand

**Action Current
Consumption (mA):**

90 (CHX)

Eg. Using sounder of other brand

CHX: $800\text{mA}/90\text{mA} = 8$ devices

Other brand Detector Voltage > panel voltage range

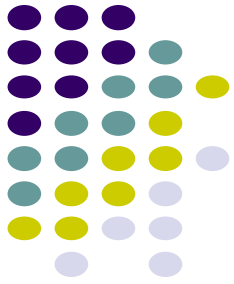
Alarm Current

≤ 50 mA

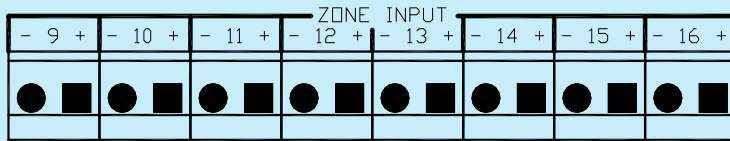
Eg. Using VSAIL sounder strobe

$800\text{mA}/50\text{mA} = 16$ devices

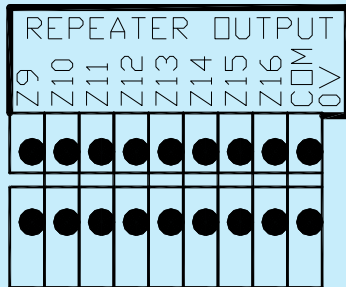
$1200\text{mA}/50\text{mA} = 24$ device



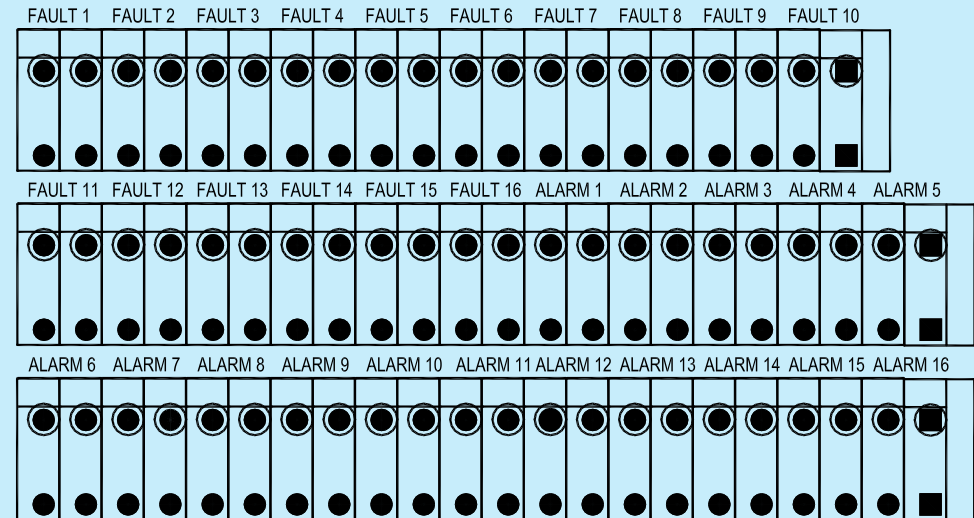
VG-6831/16 Extension Board



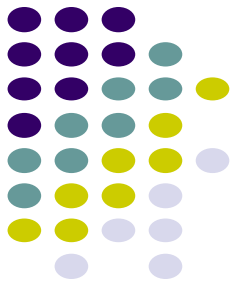
Input of Detection Line for Zone 9~16



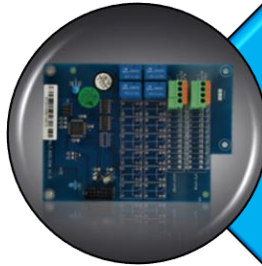
Output of Repeater Panel for Zone 9~16



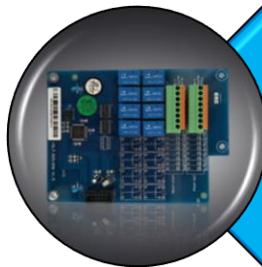
16 Fire Outputs/Voltage-free/NO/1A@24V
16 FAULT Outputs/Voltage-free/NO/1A@24V



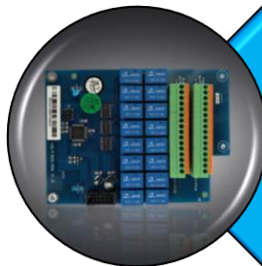
VG-6153(2/4/8) Relay Board



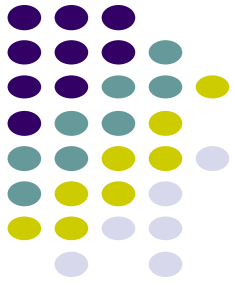
2 Fire Outputs/Voltage-free/NO/1A@24V
2 Fault Outputs/Voltage-free/NO/1A@24V



4 Fire Outputs/Voltage-free/NO/1A@24V
4 Fault Outputs/Voltage-free/NO/1A@24V



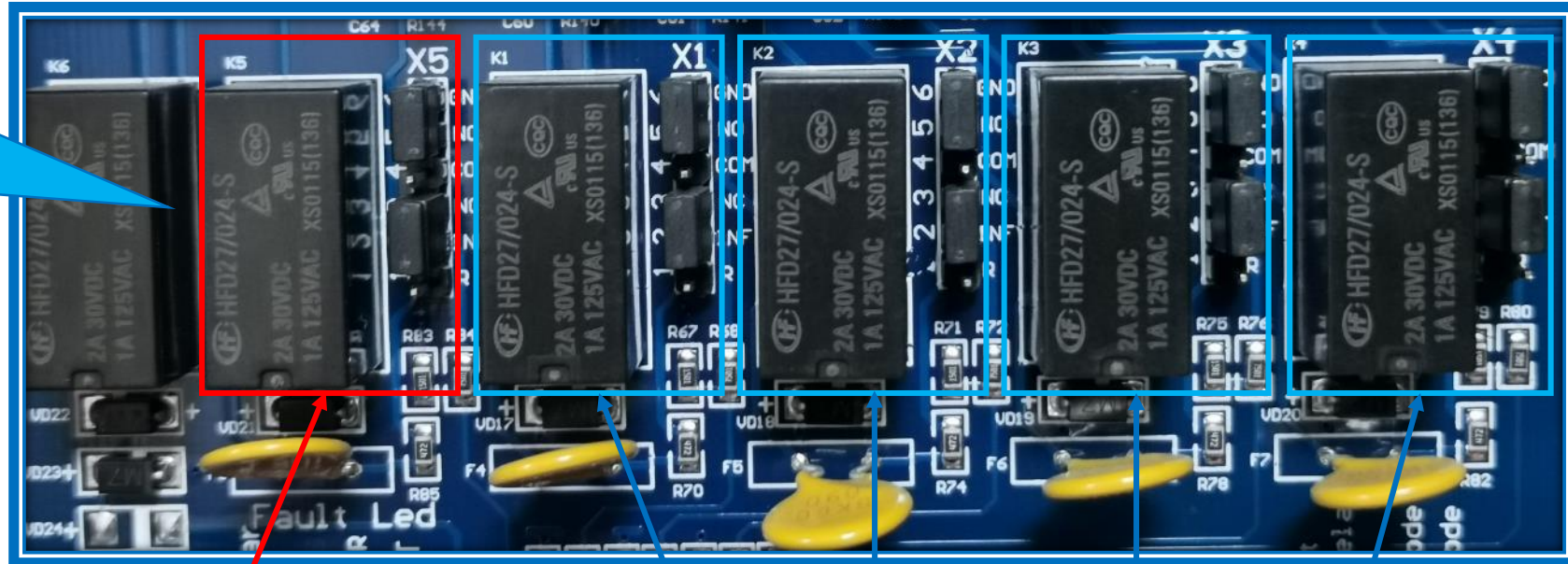
8 Fire Outputs/Voltage-free/NO/1A@24V
8 FAULT Outputs/Voltage-free/NO/1A@24V



VG-6831 Setting of Sounder/Alarm Output

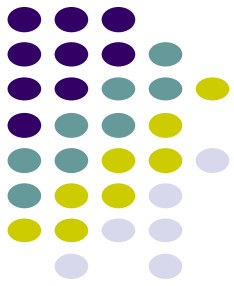
Setting Mode:

- I. Active Output
- II. Normally Open
- III. Normally Close

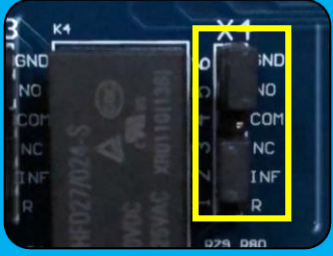


Jumper & Relay for
ALARM OUTPUT

Jumper & Relay for SOUNDER OUTPUT 1/2/3/4

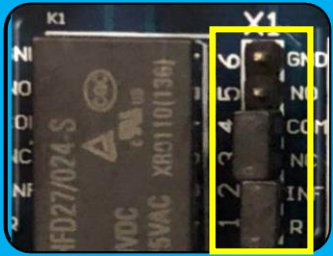


VG-6831 Setting of Sounder/Alarm Output



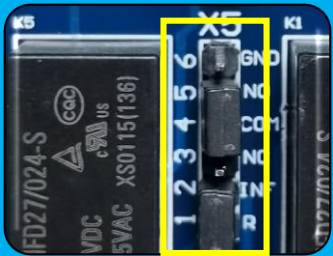
Active Output

- 2&3, 5&6
- Max. 800mA @ DC24V
- Default setting



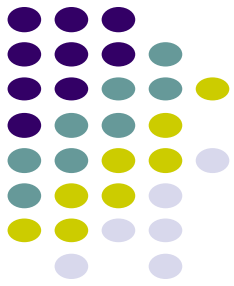
Passive Output

- 1&2, 3&4
- Normally Closed Contact


















Passive Output

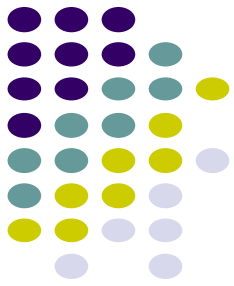
- 1&2, 4&5
- Normally Opened Contact



VG-6831 Setting of Sounder/Alarm Output

OUTPUT	Active Output		NC Output		NO Output	
	Jumper [factory default]		Jumper		Jumper	
Sounder Output 1	X1/ 2&3, 5&6		X1/ 1&2, 3&4		X1/ 1&2, 4&5	
Sounder Output 2	X2/ 2&3, 5&6		X2/ 1&2, 3&4		X2/ 1&2, 4&5	
Sounder Output 3	X3/ 2&3, 5&6		X3/ 1&2, 3&4		X3/ 1&2, 4&5	
Sounder Output 4	X4/ 2&3, 5&6		X4/ 1&2, 3&4		X4/ 1&2, 4&5	
Alarm Output	X5/ 2&3, 5&6		X5/ 1&2, 3&4		X5/ 1&2, 4&5	

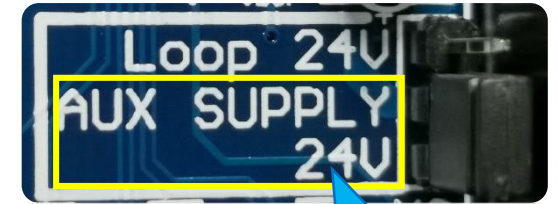
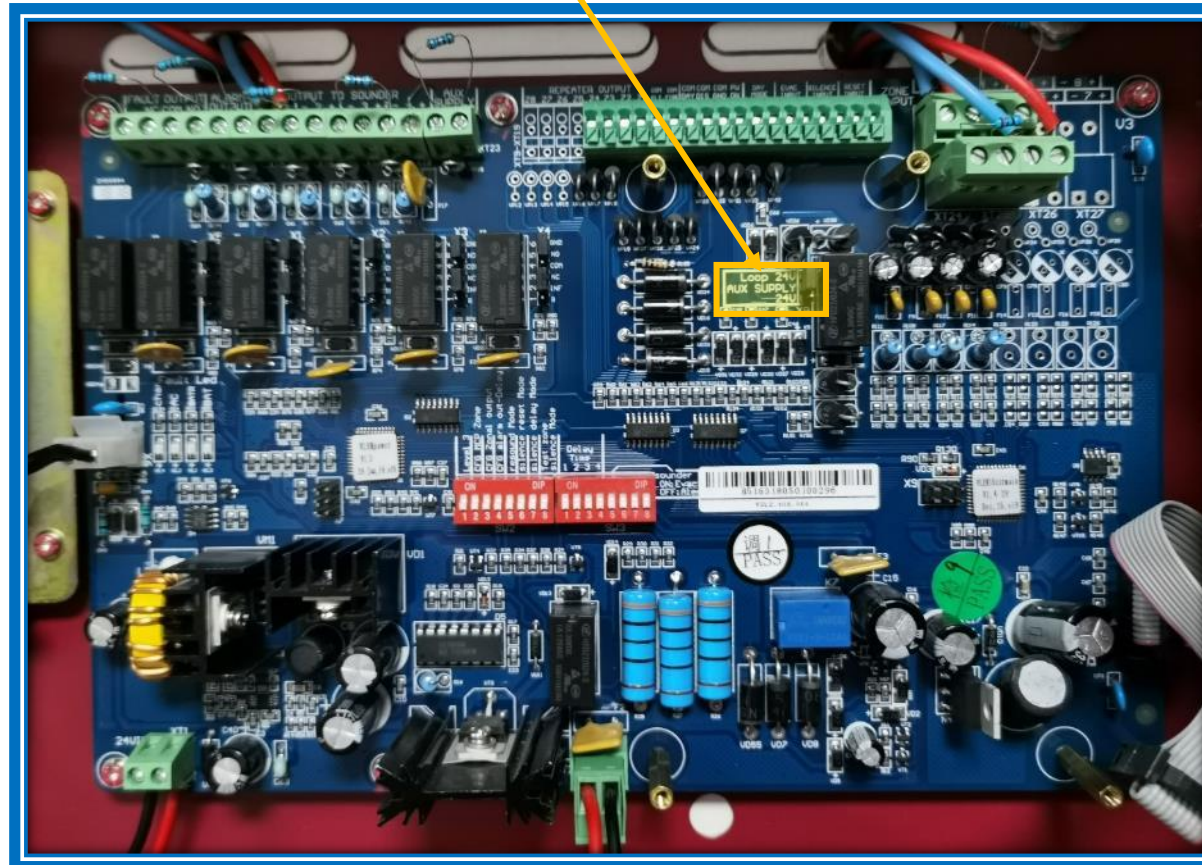




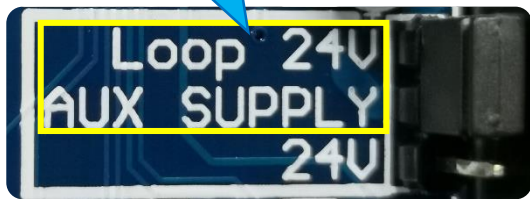
VG-6831 Setting of Auxiliary Power Output

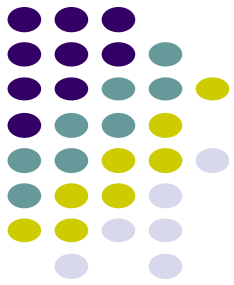
X8 Jumper

- X8 Jumper
- AUX SUPPLY + LOOP 24V
- AUX power output stopped for 3s when panel reset



- X8 Jumper
- AUX SUPPLY + 24V
- AUX power output provided continuously





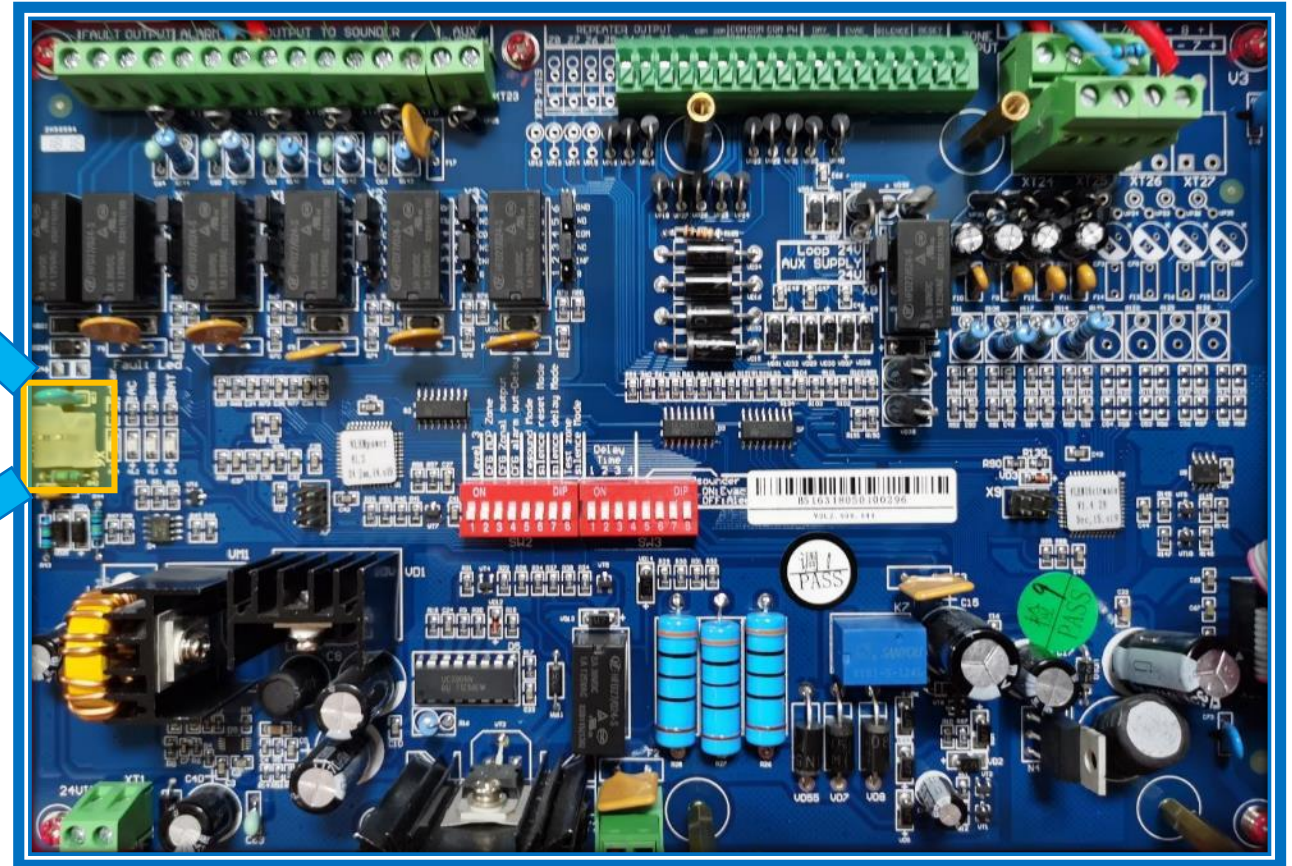
VG-6831 Setting of Earth Fault

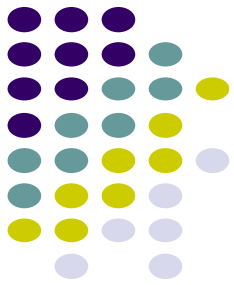


Plug on X6 Jumper
to check and
generate Earth Fault



Without X6 Jumper,
the panel will not
report Earth Fault



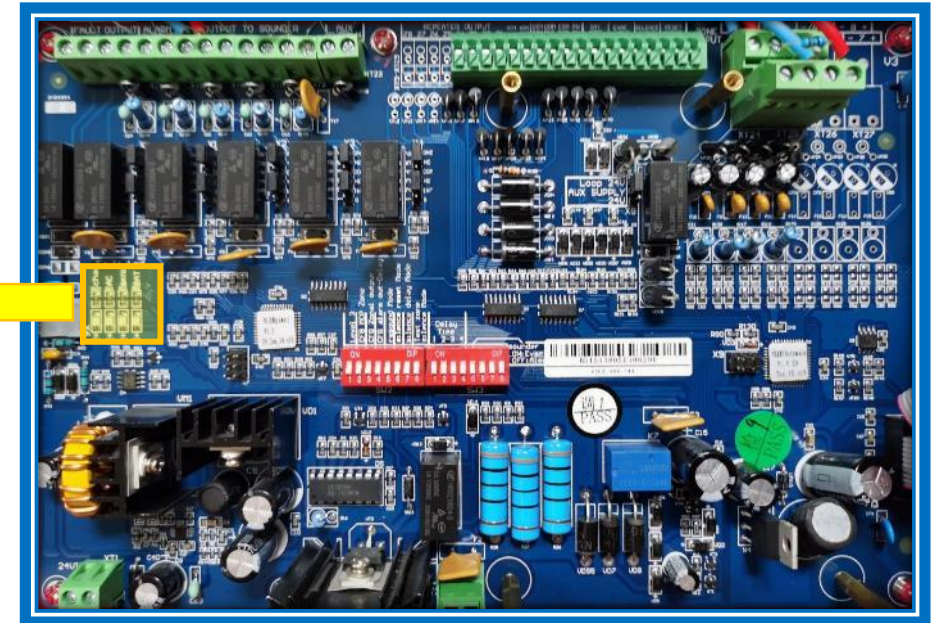
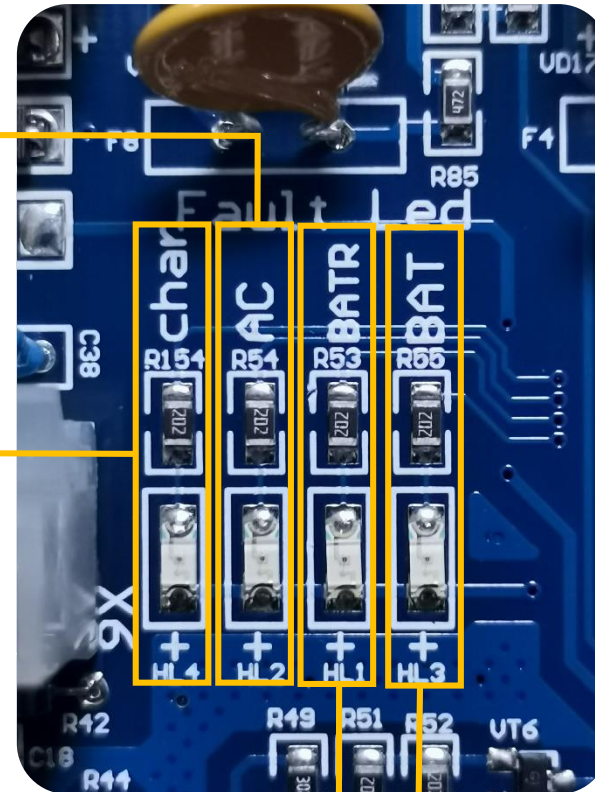


VG-6831 Indicator of Power Fault

Fault of Main Power

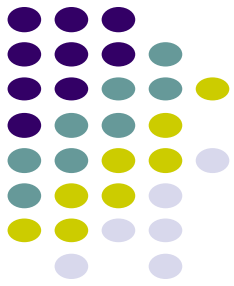
Fault of Battery Charging

Fault of Battery Resistance

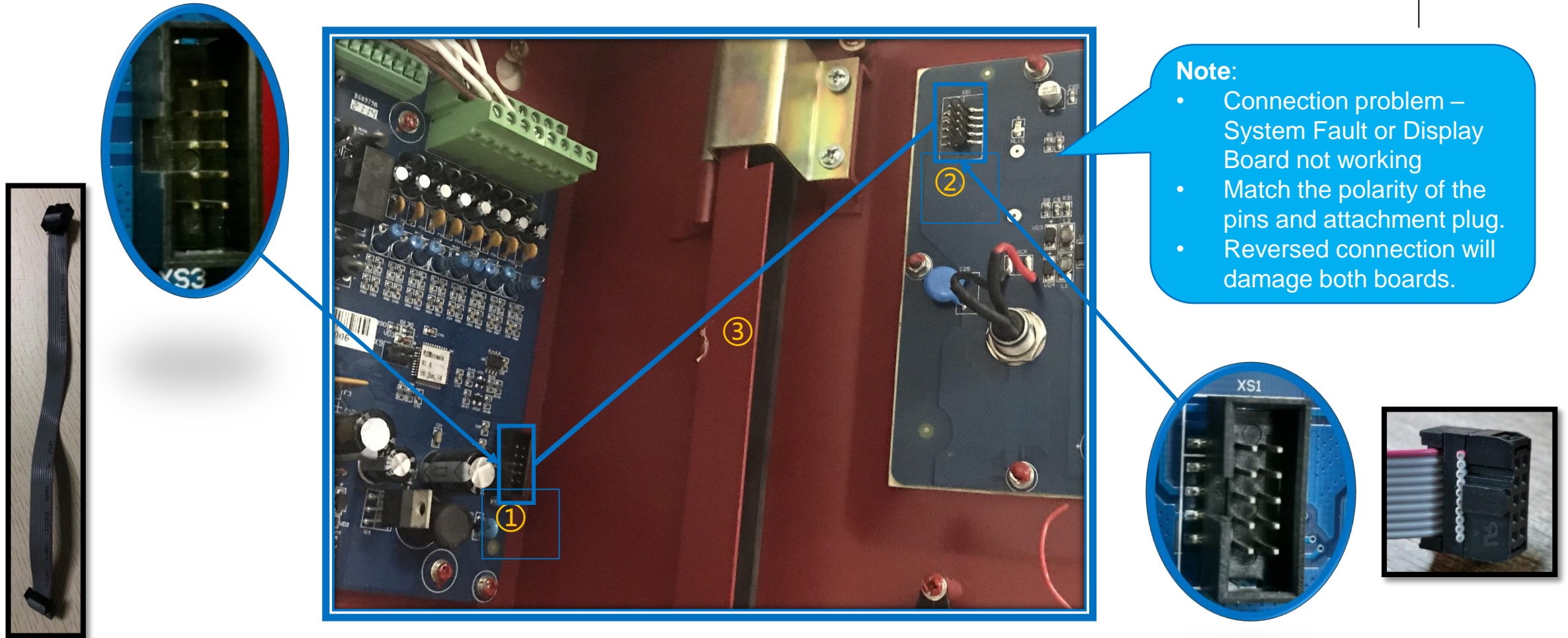


Fault of Battery





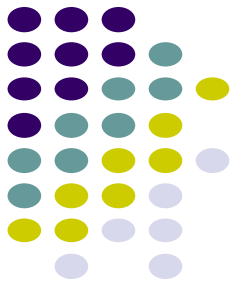
VG-6831 Connection between Boards



Note:

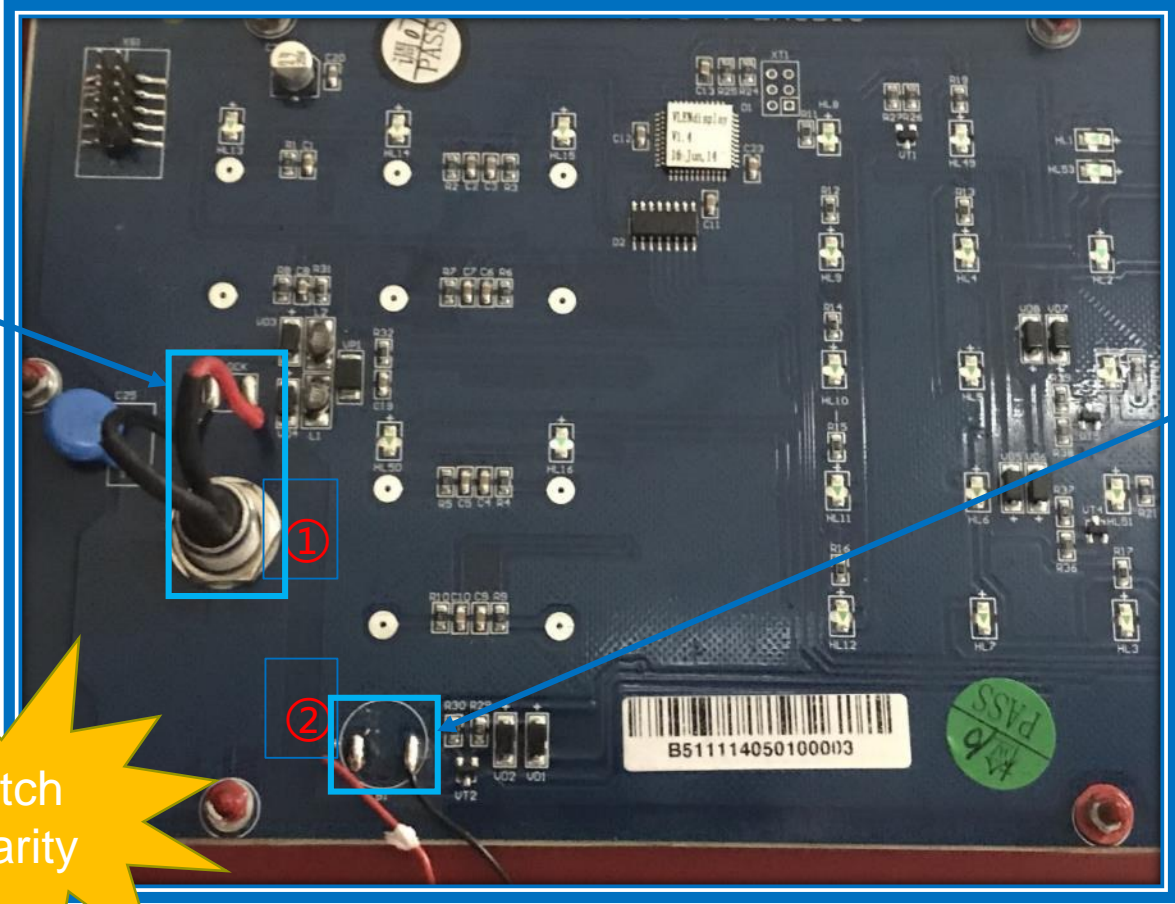
- Connection problem – System Fault or Display Board not working
- Match the polarity of the pins and attachment plug.
- Reversed connection will damage both boards.

① XS3 Port on Main Board ② XS1 Port on Display Board ③ 10pins straight-through wired cables



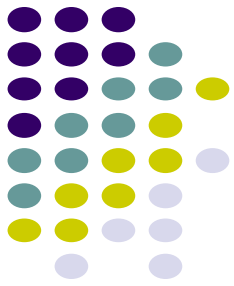
VG-6831 Connection on Board

Check this point
if Key-switch
does not work

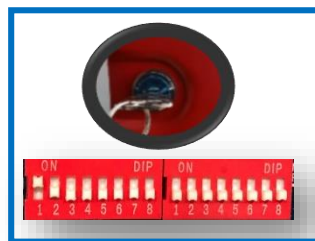
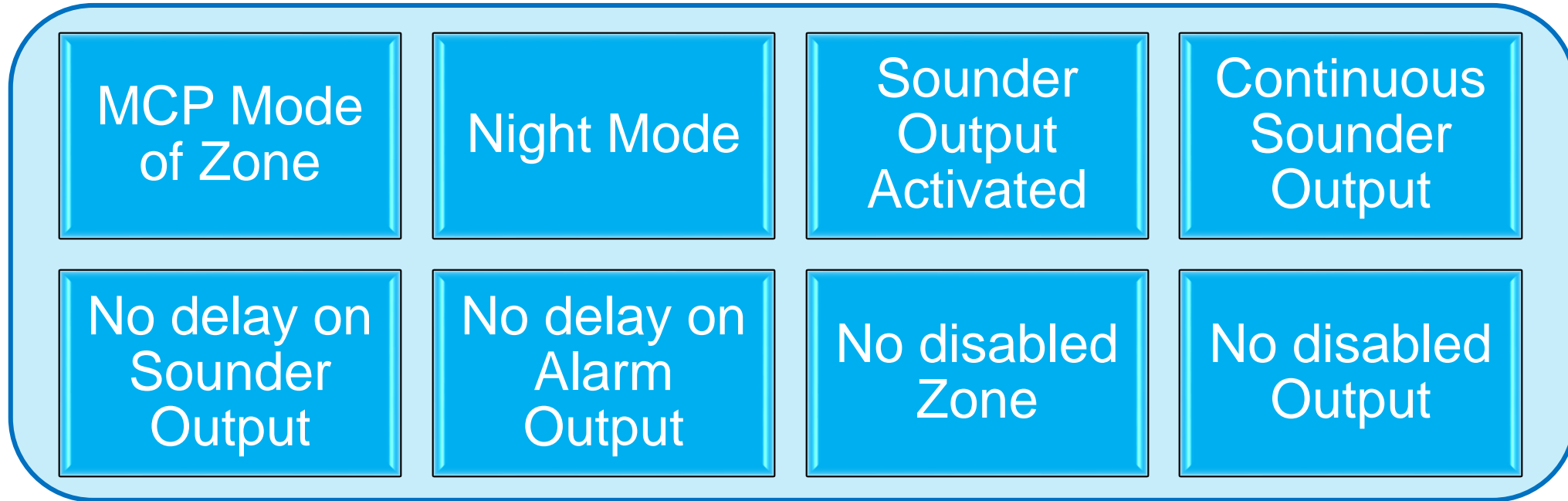


Check this point
if Buzzer does
not work

Match
Polarity



VG-6831 Setting of Output Program [default]



Start with Access Level III



Press "Output Program" button for 2s.

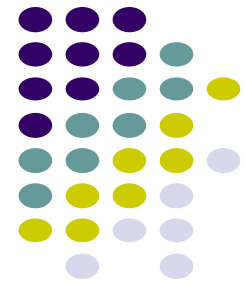


Buzzer sound for 1s.

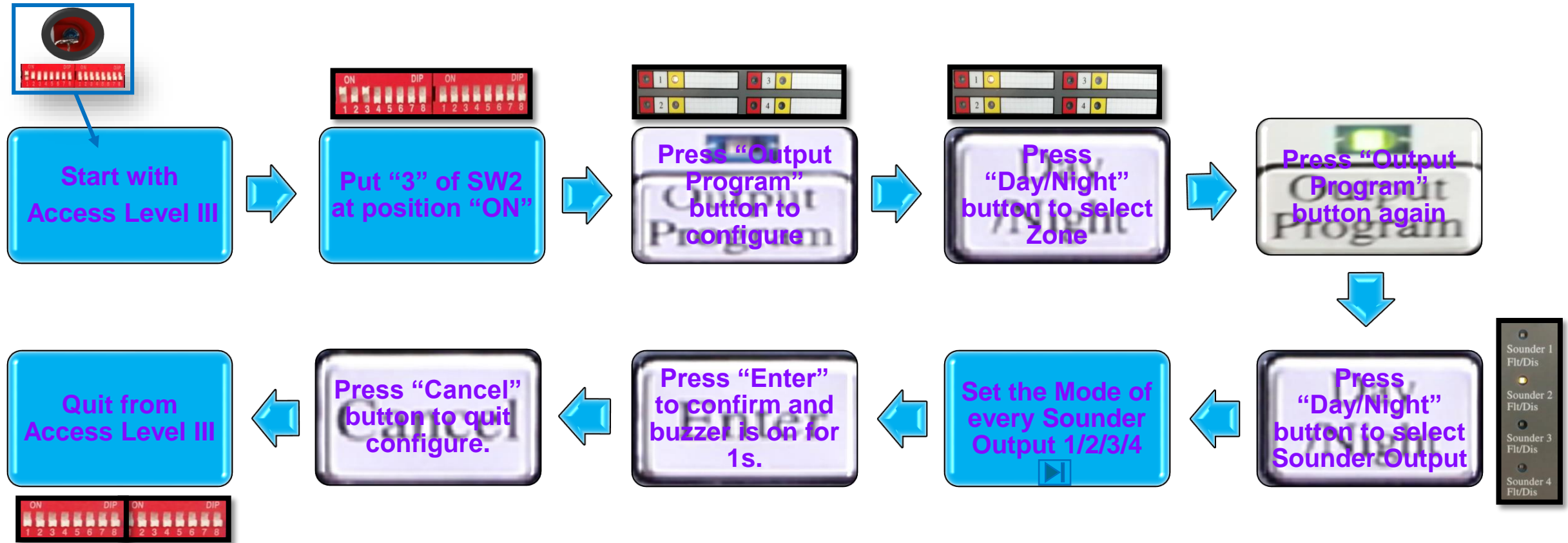


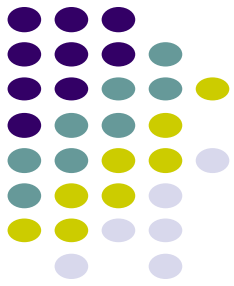
System back to default setting



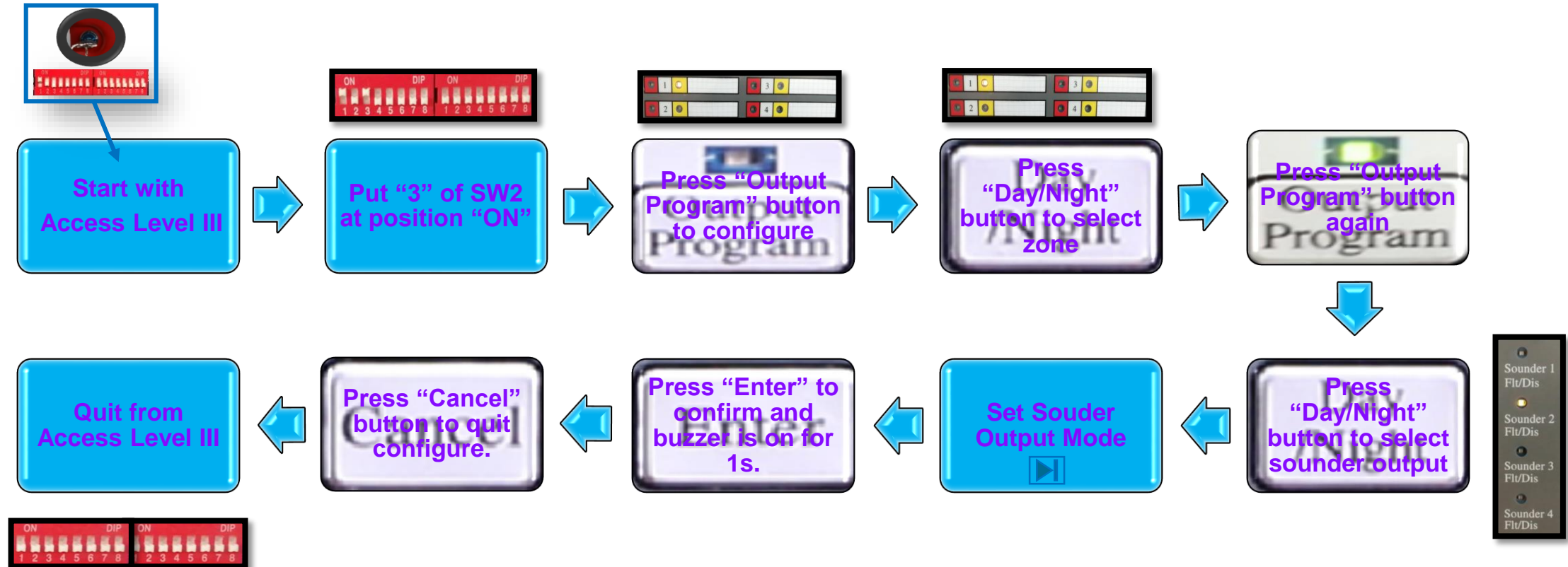


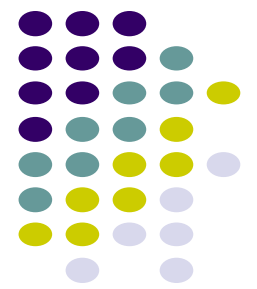
VG-6831 Setting of Sounder Output [Zone]



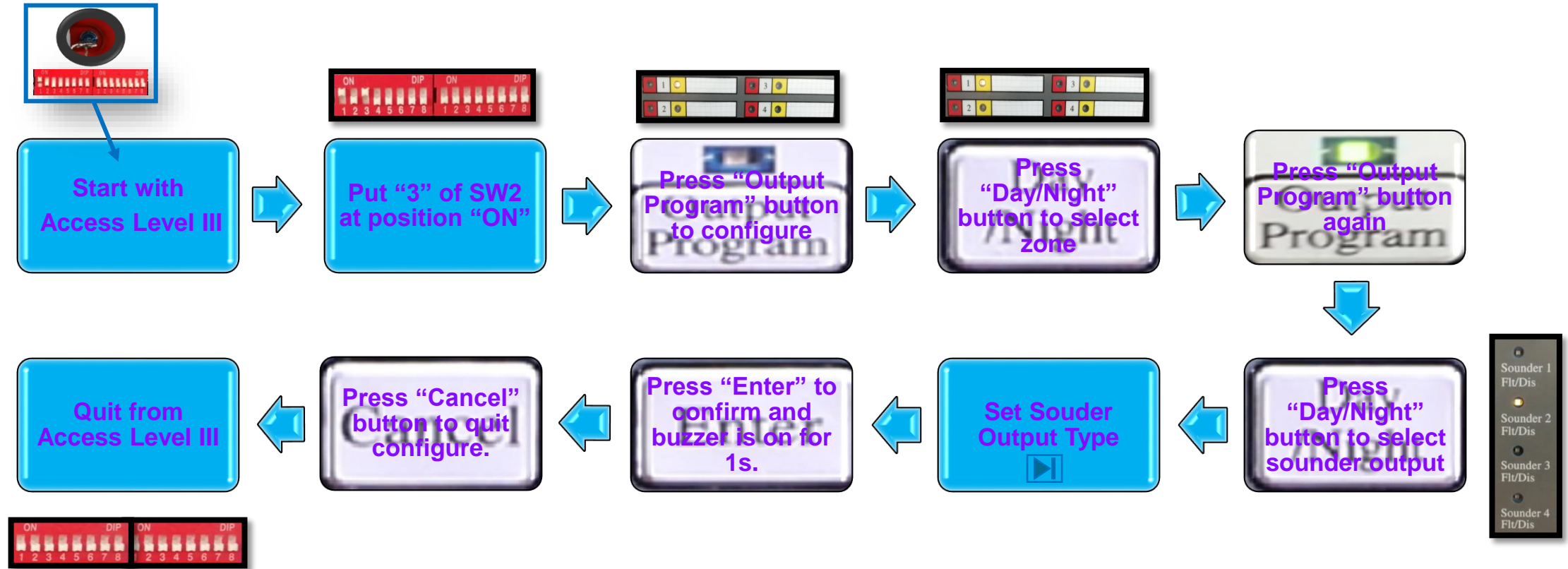


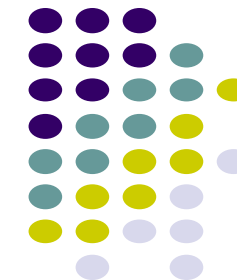
VG-6831 Setting of Sounder Output [Mode]









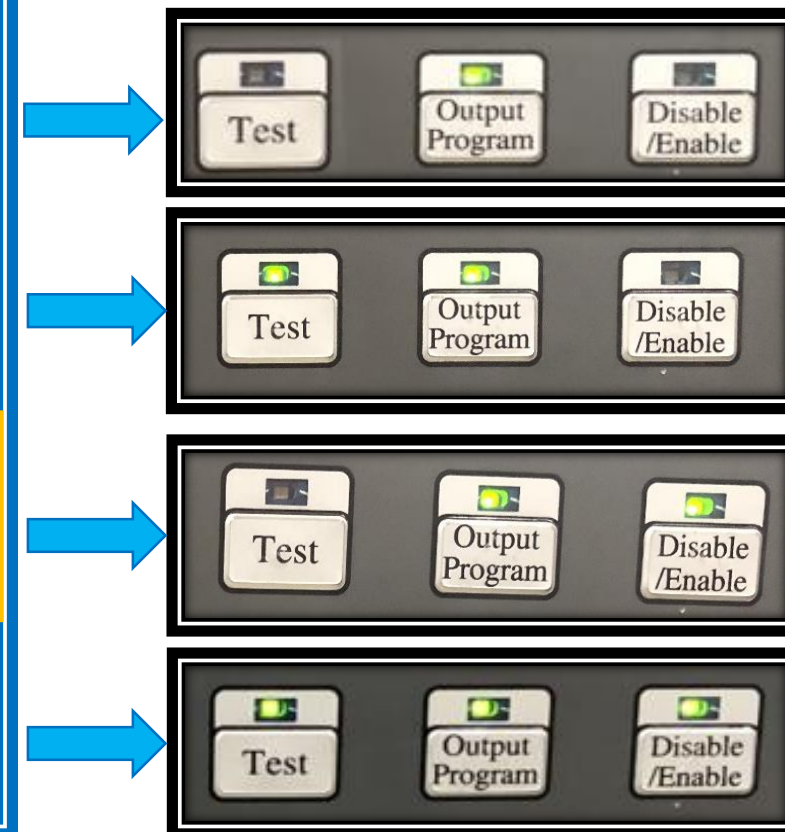
VG-6831 Setting of Sounder Output [Type]

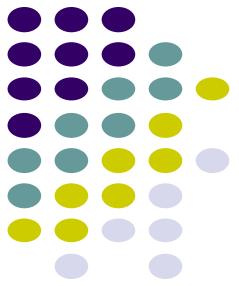




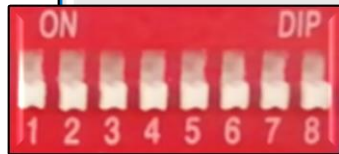
VG-6831 Setting of Sounder Output [Mode]

Mode	Description	"Disable/Enable" Key and LED	"Test" LED	LED indication
1	No output	Off	Off	
2	If alarm relay outputs, it outputs.	Off	On	
3	Delay output	On	Off	<p style="text-align: center; font-size: 2em; color: orange;">(Delay Mode)</p> 
4	Immediate output	On	On	

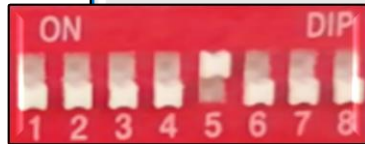




VG-6831 Setting of Sounder Output [Type]

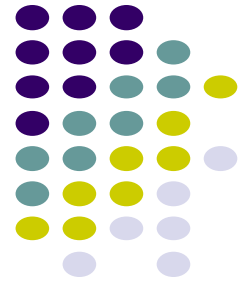


- * “5” of SW3 at position “OFF”
- * Pre-alarm Mode
- * Pulse Output

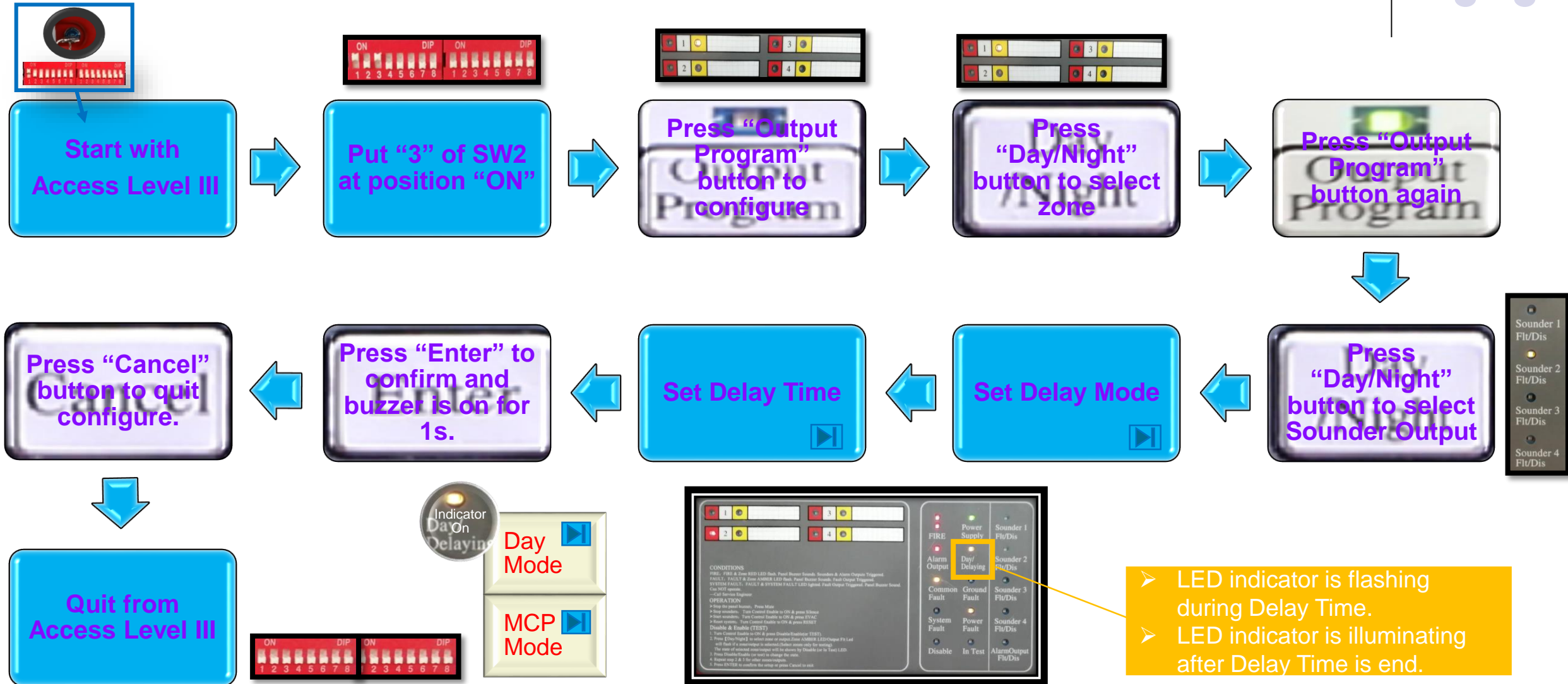


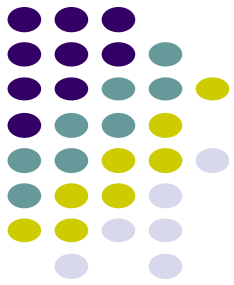
- * “5” of SW3 at position “ON”
- * EVAC Mode
- * Continuous Output



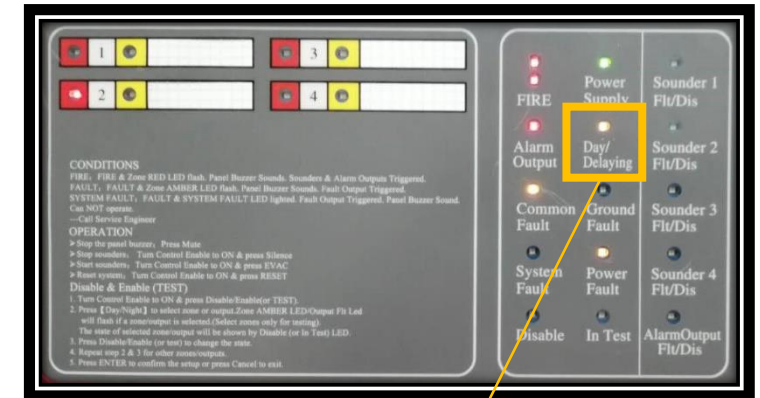
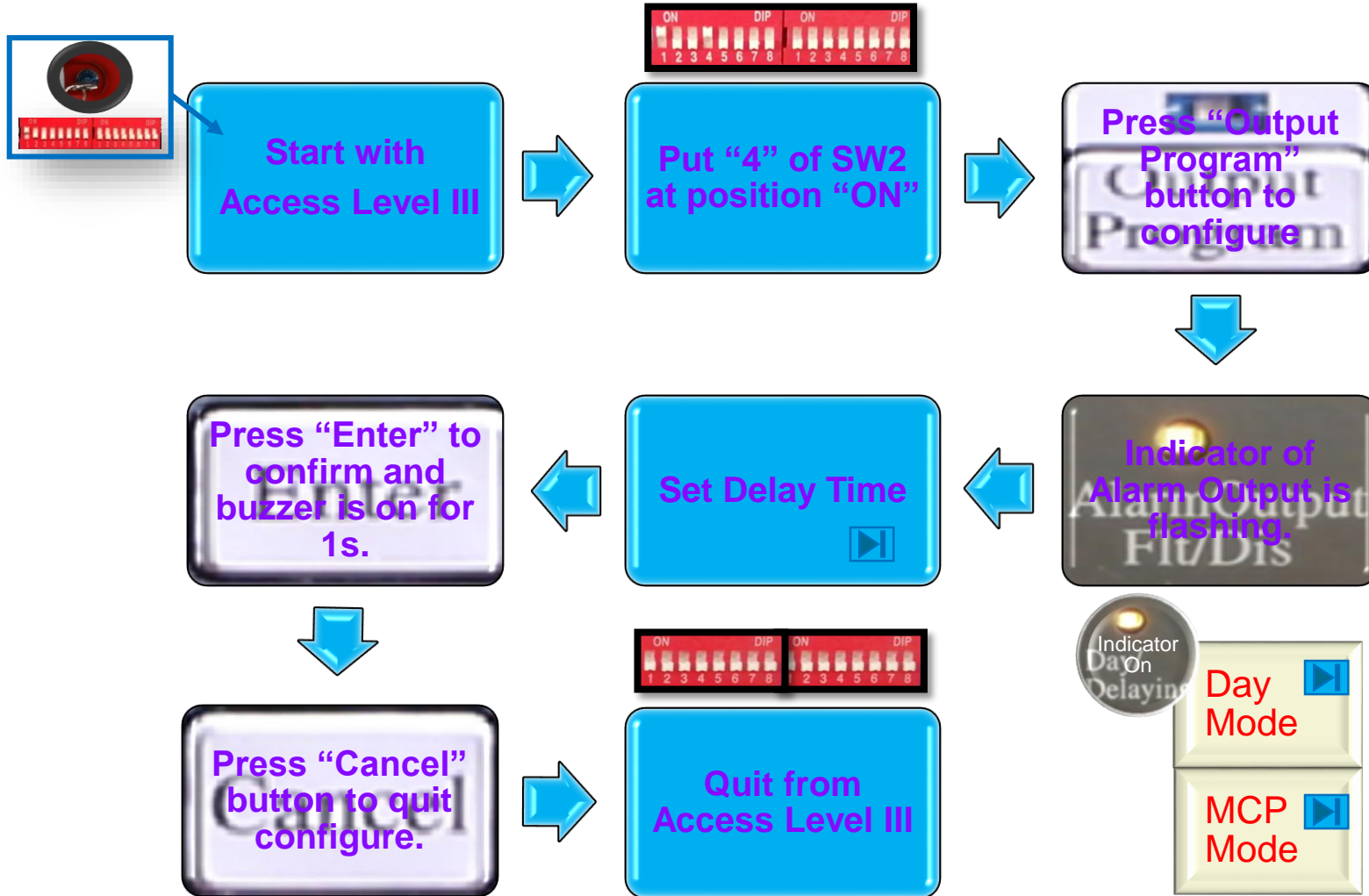


VG-6831 Setting of Delay [Sounder Output]

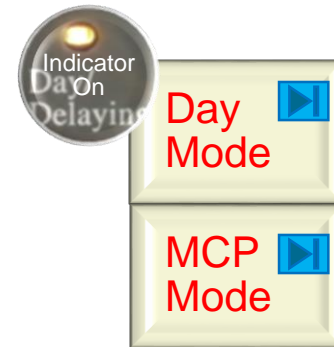


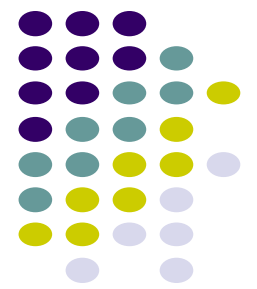


VG-6831 Setting of Delay [Alarm Output]



















- LED indicator is flashing during Delay Time.
- LED indicator is illuminating after Delay Time is end.

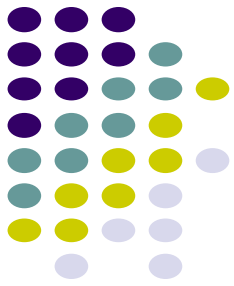




VG-6831 Setting of Delay Time

Delay Time min	"1" to "4" of SW3 (Delay Time)				DIP State	Delay Time min	"1" to "4" of SW3 (Delay Time)				DIP State
	1	2	3	4			1	2	3	4	
0	Off	Off	Off	Off		4	Off	Off	Off	on	
0.5	on	Off	Off	Off		4.5	on	Off	Off	on	
1	Off	on	Off	Off		5	Off	on	Off	on	
1.5	on	on	Off	Off		5.5	on	on	Off	on	
2	Off	Off	on	Off		6	Off	Off	on	on	
2.5	on	Off	on	Off		6.5	on	Off	on	on	
3	Off	on	on	Off		7	Off	on	on	on	
3.5	on	on	on	Off		7.5	on	on	on	on	





VG-6831 Setting of Day/Night Mode

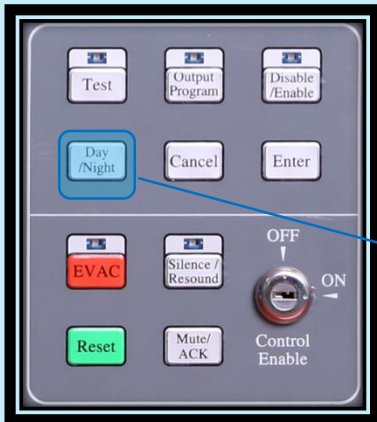
Day Mode

- Delay Mode available for Sounder/Alarm Output
- Allow manual confirm to reduce false alarm

Night Mode

- When alarm occurred, Sounder/Alarm Output will be activated immediately

Method One



Press "Day/Night" button for 2s to switch between "DAY" "NIGHT"

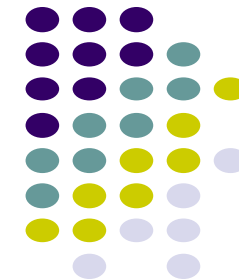


Method Two

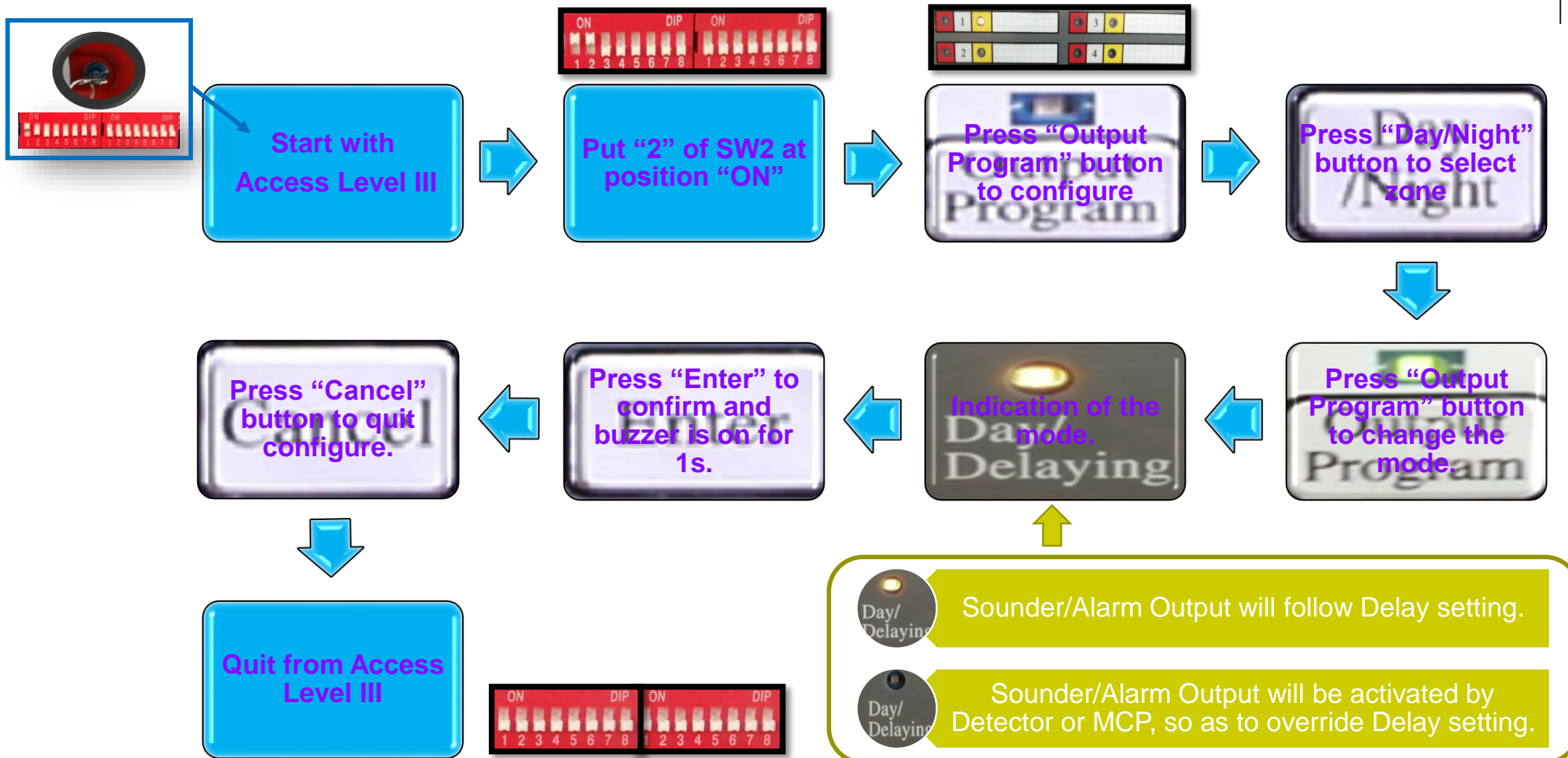
Connect NO switch to "DAY MODE" terminals on main Board.

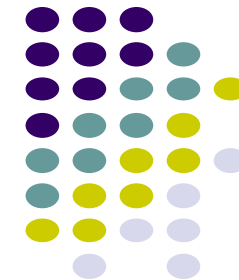
"NO" → "NC"





VG-6831 Setting of MCP Mode





VG-6831 Setting of Test Mode



Start with Access Level II

Press "Test" button to enter configure

Press "Day/Night" button to select zone



Press "Test" button to confirm

Indicator of Zone is flashing.

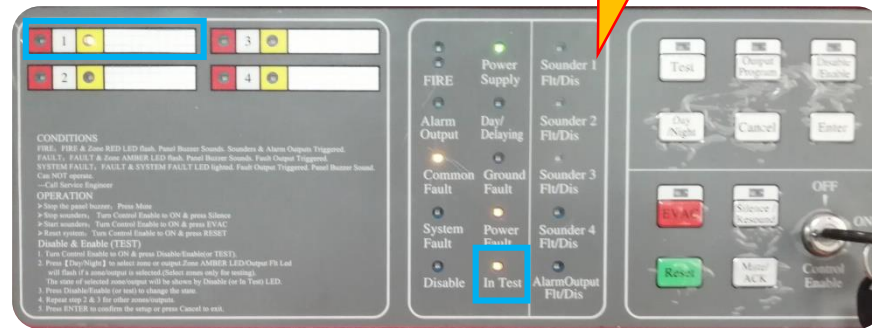
Indicator of In Test is illuminating.

In Test Mode, Sounder/Alarm/Repeater/Fault Output will be disabled.

Setting deleted after power off!

Press "Enter" to confirm and buzzer is on for 1s.

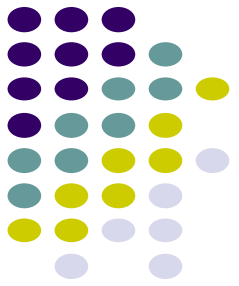
Press "Cancel" button to quit configure.



CONDITIONS
 FIRE, FIRE & Zone RED LED Flash, Panel Buzzer Sounds, Sounders & Alarm Output Triggered
 FAULT, FAULT & Zone AMBER LED Flash, Panel Buzzer Sounds, Fault Output Triggered
 SYSTEM FAULT, FAULT & SYSTEM FAULT LED lighted, Fault Output Triggered, Panel Buzzer Sound, Can NOT restore
 ---Call Service Engineer
 OPERATION
 1) Stop the panel buzzer, Press Menu
 2) Stop sounders, Press Control Enable to ON & press Silence
 3) Stop sounders, Press Control Enable to ON & press EVAC
 4) Alarm system, Press Control Enable to ON & press RESET
 Disable & Enable (TEST)
 1) Turn Control Enable to ON & press Disable/Silence (TEST)
 2) Press [Day/Night] to select zone or output Zone AMBER LED/Output Fl Led with flash if a zone/output is selected (output zones only for testing). The state of selected zone/output will be shown by Disable bar in Test LED.
 3) Press Disable/Enable (or Test) to change the state.
 4) Repeat step 2 & 3 for other zones/output.
 5) Press ENTER to confirm the setup or press Cancel to exit.

Power Supply
 FIRE
 Alarm Output
 Common Fault
 System Fault
 Disable
 Day/ Delaying
 Ground Fault
 Power Fault
 In Test

Sounder 1 Flt/Dis
 Sounder 2 Flt/Dis
 Sounder 3 Flt/Dis
 Sounder 4 Flt/Dis
 AlarmOutput Flt/Dis
 Test
 Day/Night
 Cancel
 Enter
 Silence/Reset
 ACK
 Control Enable



VG-6831 How to Quit Test Mode



Start with
Access Level II



Press "Test"
button to enter
configure



Press
"Day/Night"
button to select
zone



Press "Test"
button to
confirm



Indicator of
Zone is flashing.



Indicator of
In Test is off

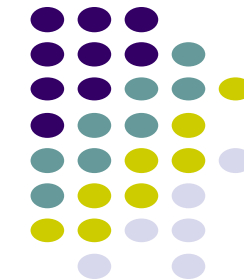


Press "Enter"
to confirm and
buzzer is on for
1s.



Press "Cancel"
button to quit
configure.

Setting
deleted
after
power off!



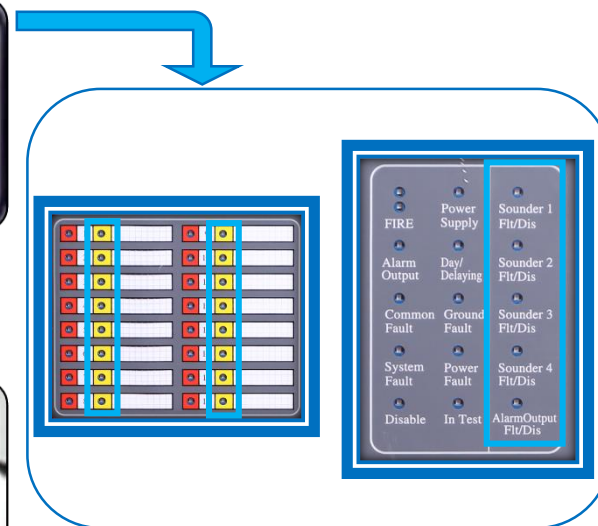
VG-6831 Setting of Disable



Start with Access Level II

Press "Disable" button to enter configure

Press "Day/Night" button to select Zone and Output



Indicator of Disable is illuminating.

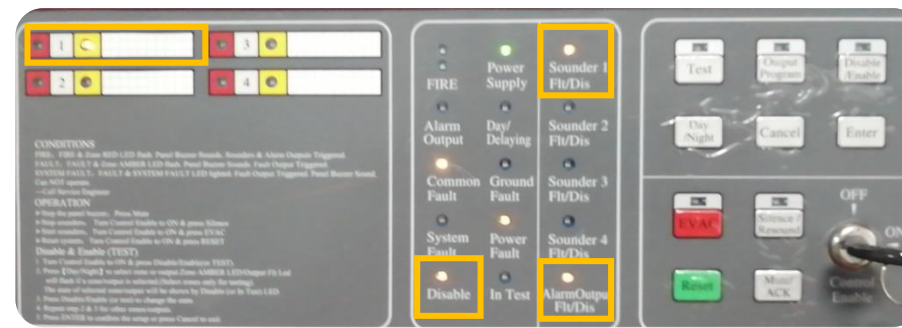
Indicator of Zone/Output is flashing.

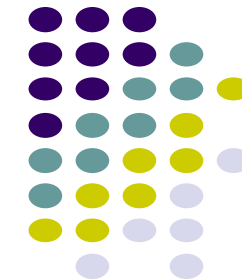
Press "Disable" button to confirm.

Setting saved after power off!

Press "Enter" to confirm and buzzer is on for 1s.

Press "Cancel" button to quit configure.





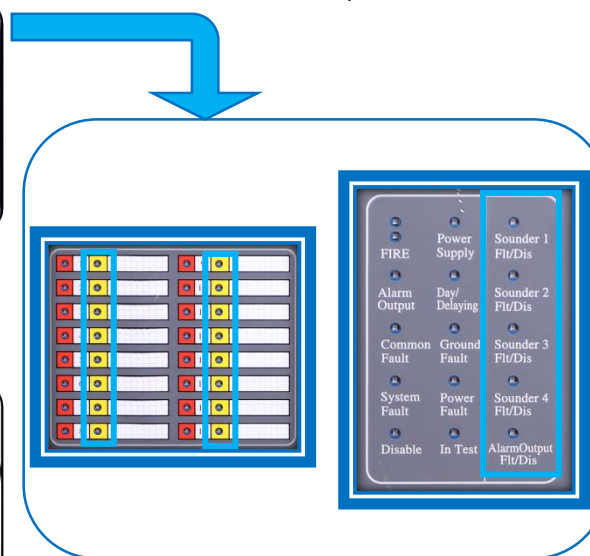
VG-6831 Setting of Enable



Start with Access Level II

Press "Enable" button to enter configure

Press "Day/Night" button to select Zone or Output



Press "Enable" button to confirm.

Indicator of Zone/Output is flashing.

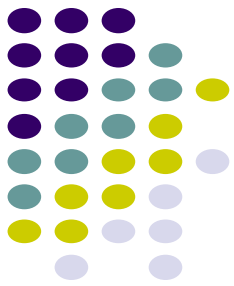
Indicator of Disable is off.

Setting saved after power off!

Press "Enter" to confirm and buzzer is on for 1s.

Press "Cancel" button to quit configure.

<input type="checkbox"/>	Power Supply	Sounder 1 Flt/Dis
<input type="checkbox"/>	Day/ Delaying	Sounder 2 Flt/Dis
<input type="checkbox"/>	Common Fault	Sounder 3 Flt/Dis
<input type="checkbox"/>	System Fault	Sounder 4 Flt/Dis
<input type="checkbox"/>	Ground Fault	AlarmOutput Flt/Dis
<input type="checkbox"/>	Power Fault	
<input type="checkbox"/>	In Test	
<input type="checkbox"/>	Disable	

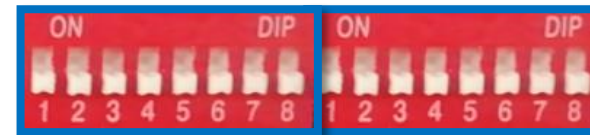


VG-6831 Setting of Resound Mode

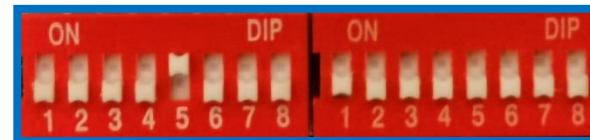
Resound Mode On:

1. When alarm occurred in Zone 1, Sounder Output 1 is activated, then press "Silence" button to silence the sounder.
2. Afterwards, if there is another alarm occurred in Zone 2, Sounder Output 1 will resound again.

Put "5" of SW2 on position "ON"

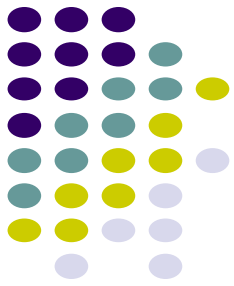


Put "5" of SW2 on position "OFF"



Resound Mode Off:

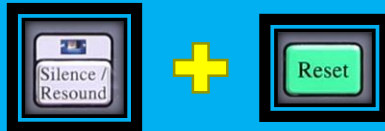
1. When alarm occurred in Zone 1, Sounder Output 1 is activated, then press "Silence" button to silence the sounder.
2. Afterwards, if there is another alarm occurred in Zone 2, Sounder Output 1 will remain silenced.



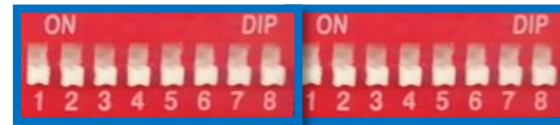
VG-6831 Setting of Silence+Rest Mode

Silence+Reset Mode On:

1. When alarm occurred, Sounder Output is activated.
2. Press "Silence" + "Reset" button to reset the panel.



Put "6" of SW2 on position "ON"



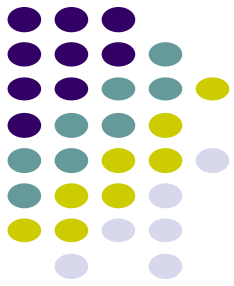
Put "6" of SW2 on position "OFF"



Silence+Reset Mode Off:

1. When alarm occurred, Sounder Output is activated.
2. Press "Reset" button only to reset the panel.

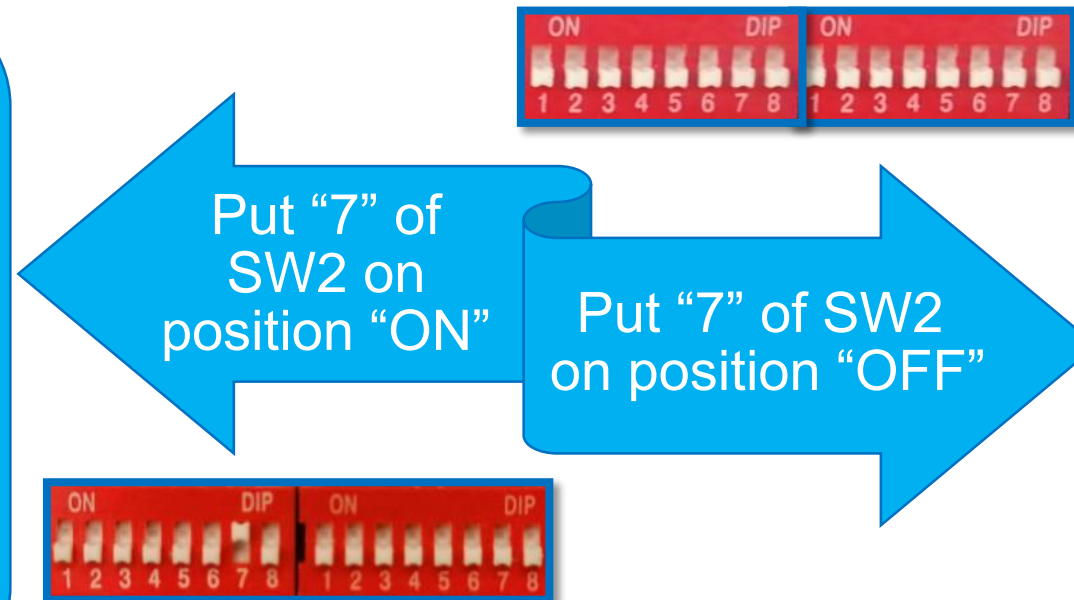
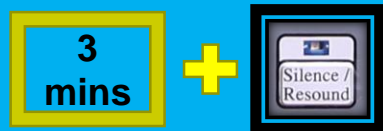




VG-6831 Setting of Silence Delay Mode

Silence Delay Mode On:

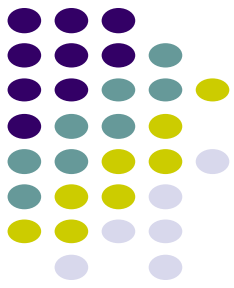
1. When alarm occurred, Sounder Output is activated.
2. There is time delay of 3 minutes.
3. Afterwards, Press "Silence" button to silence the sounder.



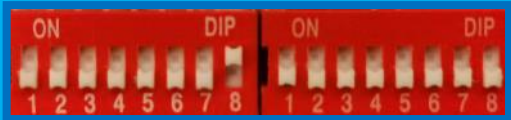
Silence-Reset Mode Off:

1. When alarm occurred, Sounder Output is activated.
2. Press "Silence" button immediately to silence the sounder.





VG-6831 Setting of Sound of Test Zone

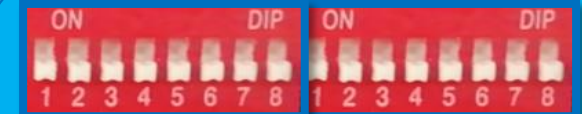


Sound of Test Zone On:

1. Zone 1 is set in Test Mode.
2. When alarm occurred in Zone 1, the Sounder of Zone 1 will be activated for 15 seconds.

Put "8" of SW2 on position "ON"

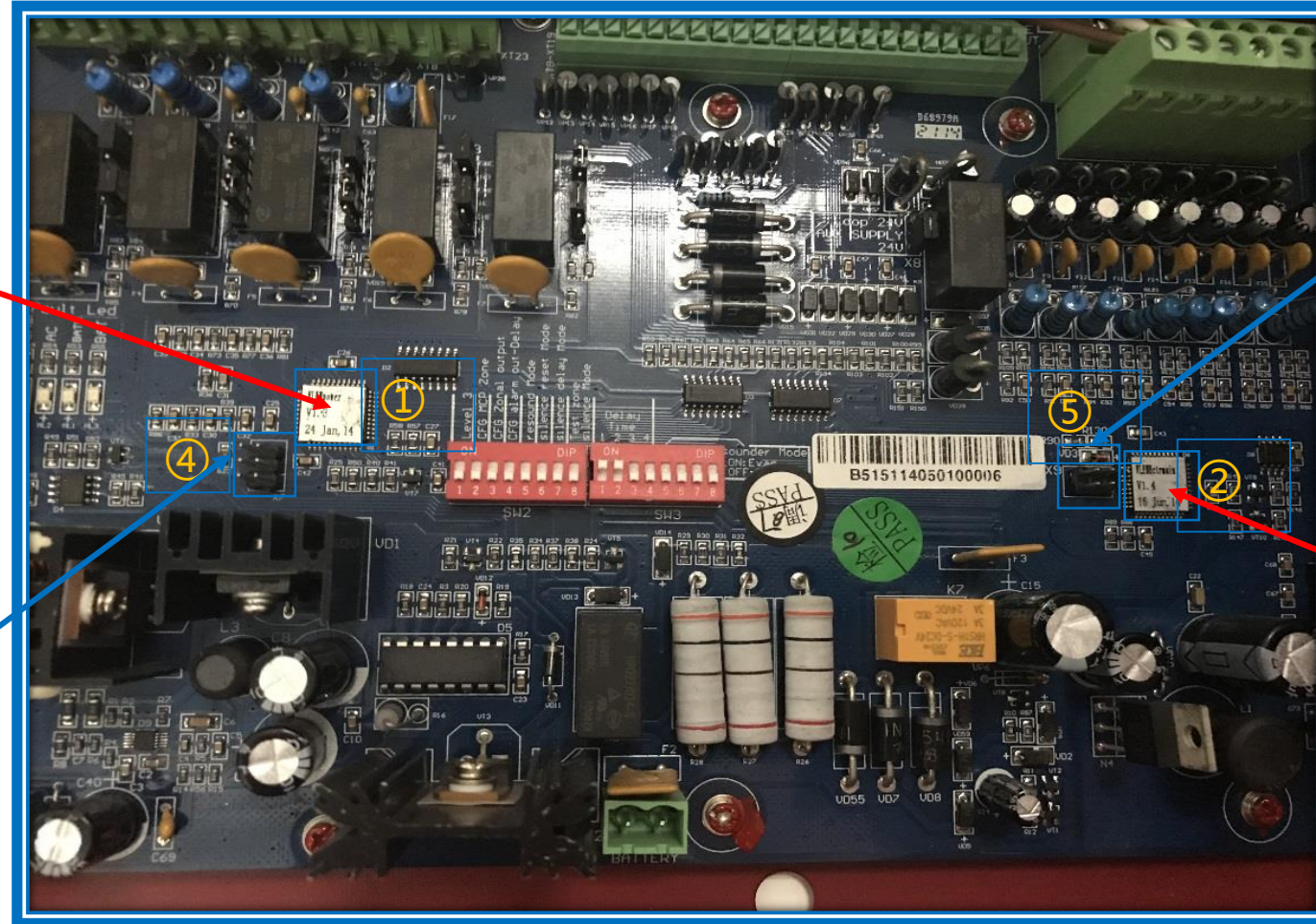
Put "8" of SW2 on position "OFF"



Sound of Test Zone Off:

1. Zone 1 is set in Test Mode.
2. When alarm occurred in Zone 1, the Sounder of Zone 1 will not be activated.

VG-6831 Program Update [Main Board]

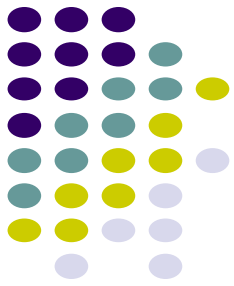


MCU of Power Supply


Updating port for main program

Updating port for program of Power Supply

MCU of Main Board



VG-6831 Program Update [Main Program]

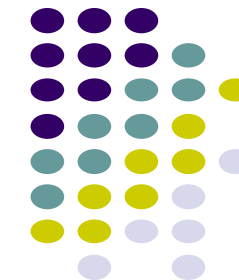


The image shows a blue PCB with various components. A central MCU is labeled 'VLEW4ctrmain V1.40 29 Dec 15.s19'. A blue callout box points to a header labeled 'D3' with the text 'Updating port for main program'. A red callout box points to the MCU with the text 'MCU of Main Board'. A yellow callout box points to the MCU with the text 'Program: Detection Zone, Operation and Setting of Access Level II'. Other components labeled include R49, R94, C52, R93, C51, C54, R95, R130, C43, D6, R89, R88, and C45.

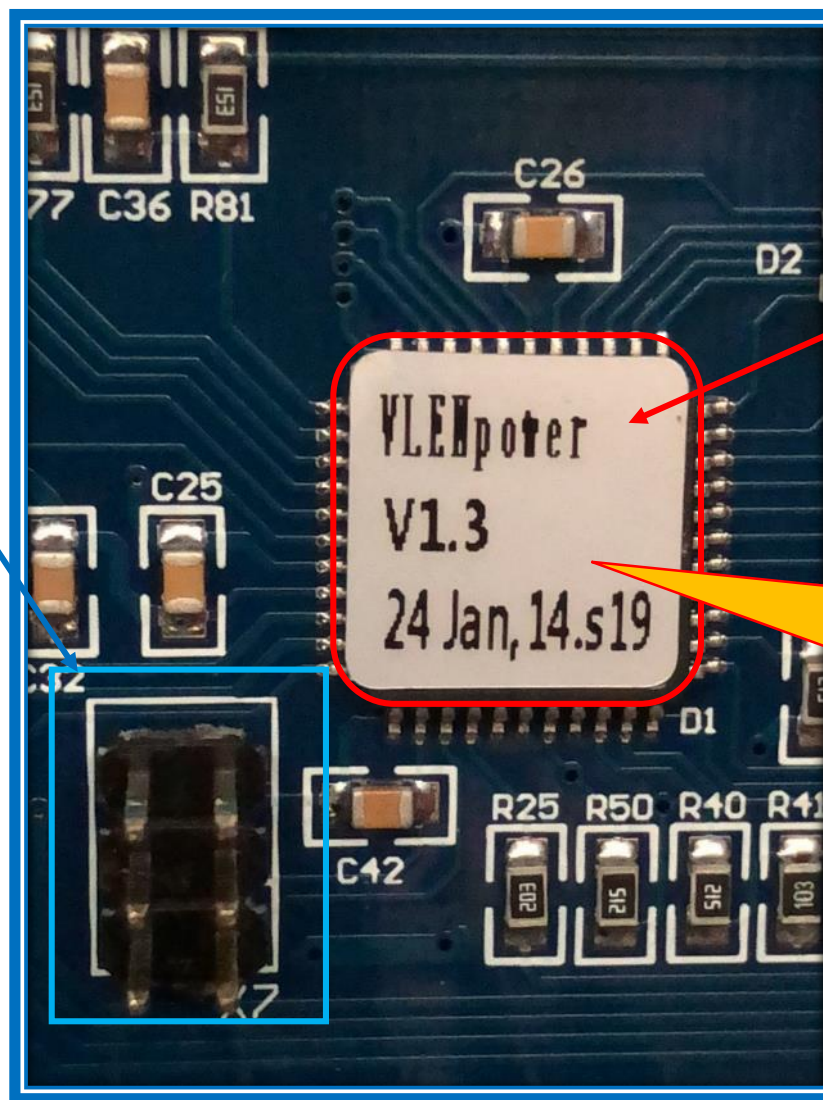
Updating port for main program

MCU of Main Board

Program:
➤ Detection Zone
➤ Operation and Setting of Access Level II



VG-6831 Program Update [Program of Power Supply]



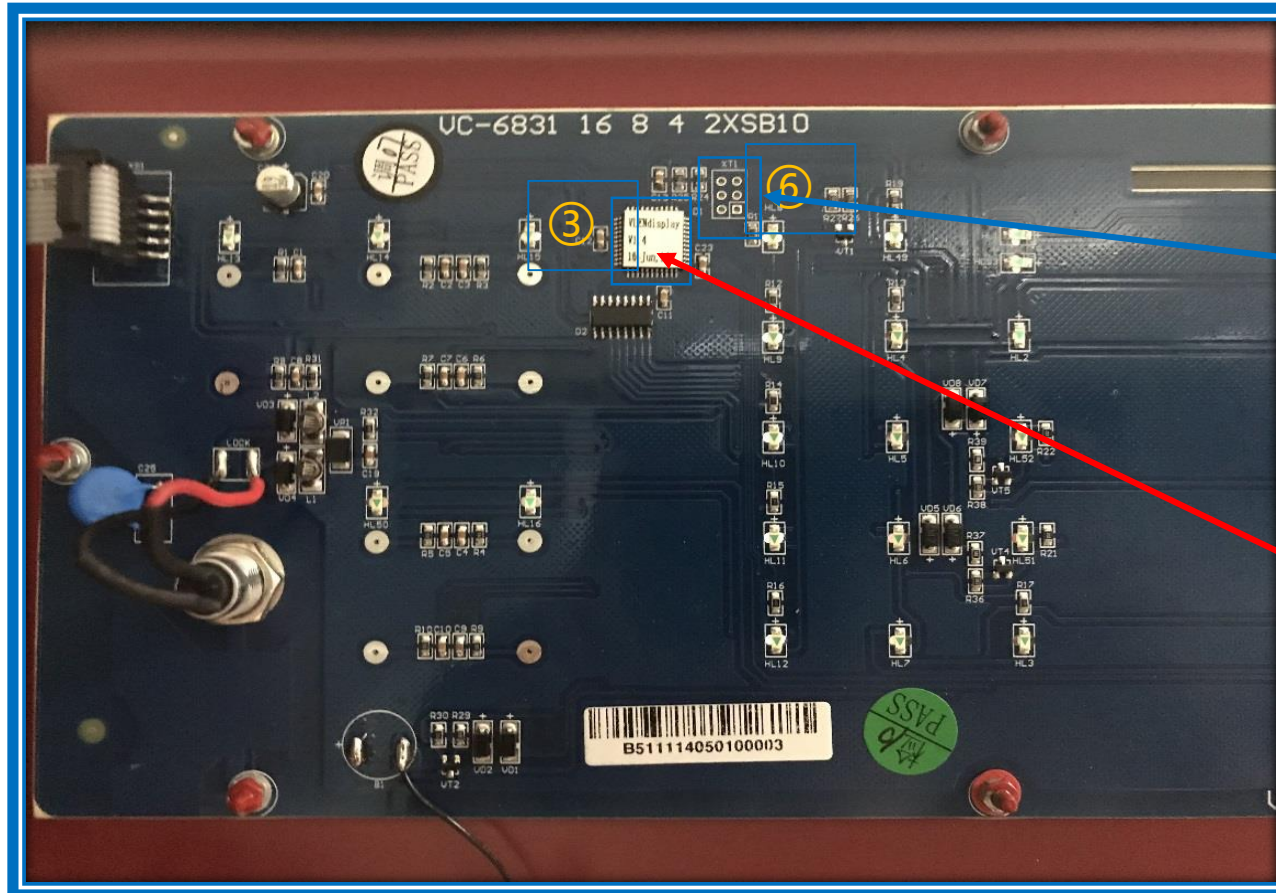
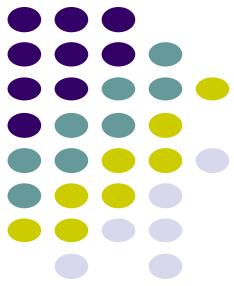
Updating port for program of Power Supply

MCU of Power Supply

Program:

- Fault indication of AC/BAT/BATR/Char
- Program of Sounder Output

VG-6831 Program Update [Display Board]



Updating port for program of Display Board

MCU of Display Board

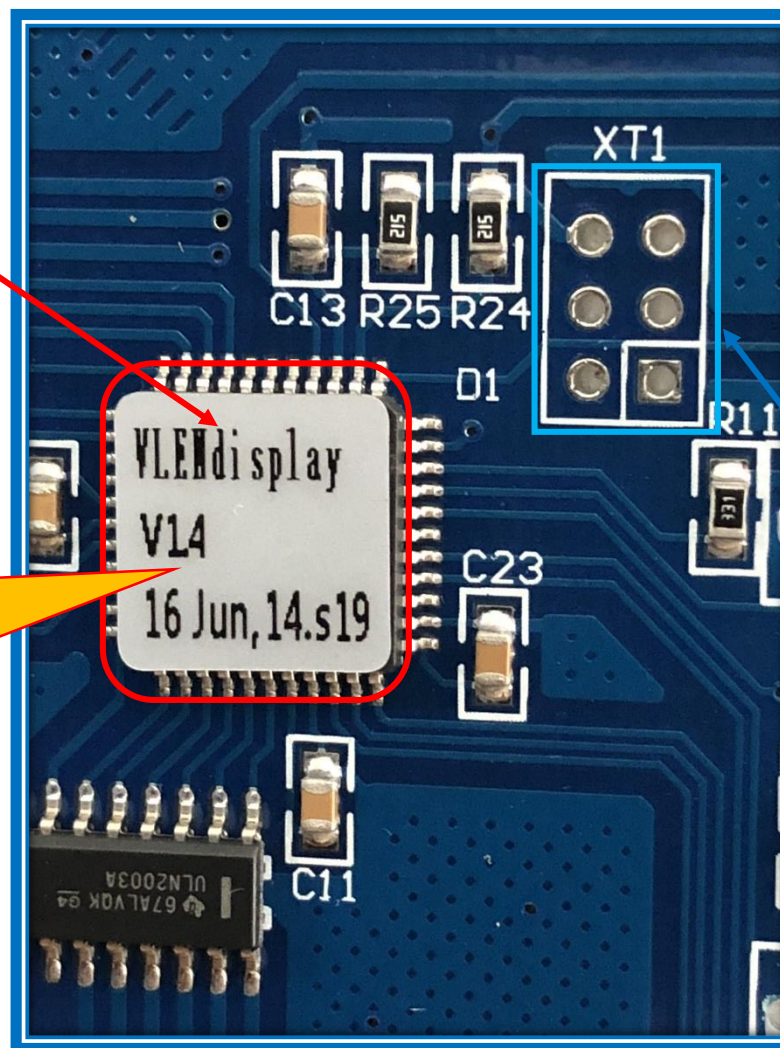


VG-6831 Program Update [Program of Display Board]

MCU of Display Board

Program:

- Zone Indication
- LED Indicators
- Control Buttons
- Access Level I
- Panel Buzzer



Updating port for program of Display Board



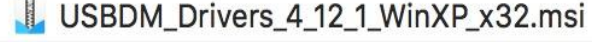
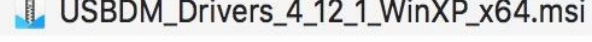
VG-6831 Program Update [Programmer]

USBDM Flash Programmer

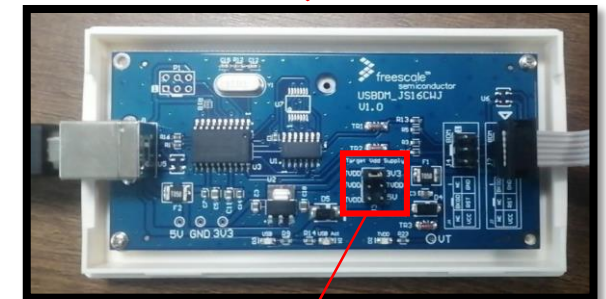
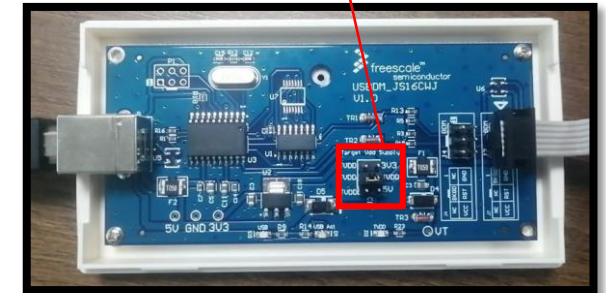


Compatible IDEs:
Windows-XP-32bit,
Windows-7-32bit,
Windows-7-64bit
Windows-10-64bit

Software needed:

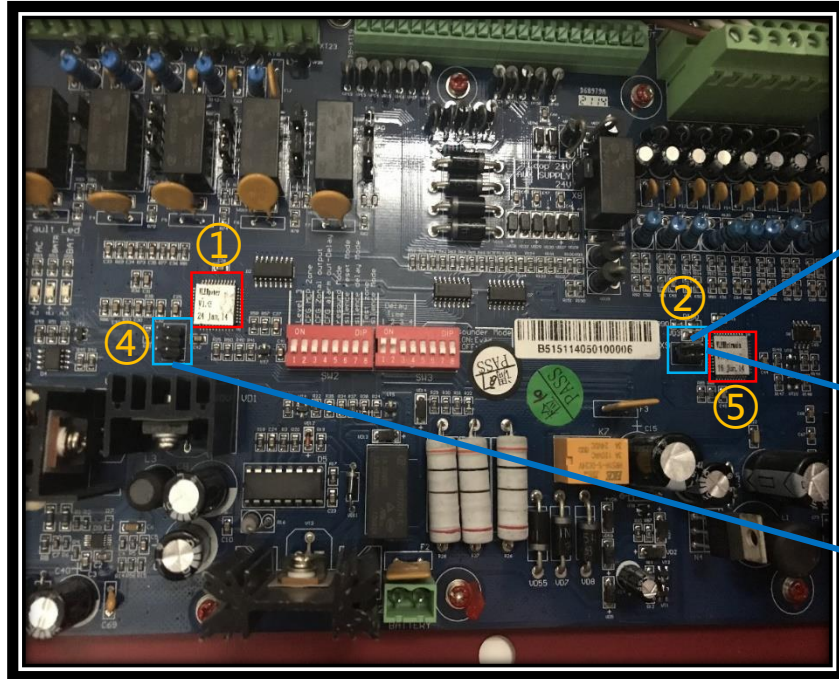
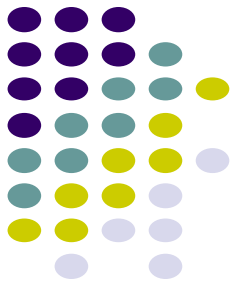
- 
- 
- 
- 
- 

Jumper on "TVDO" as default

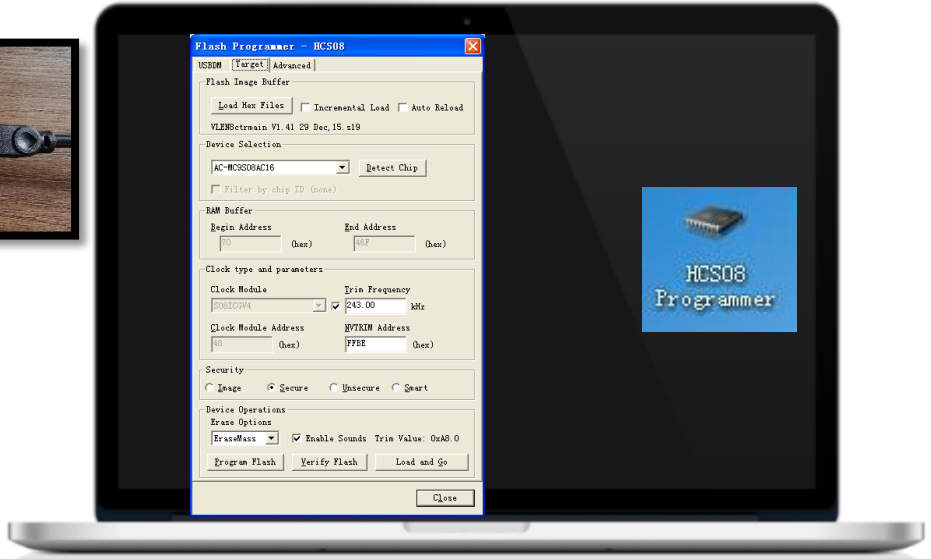


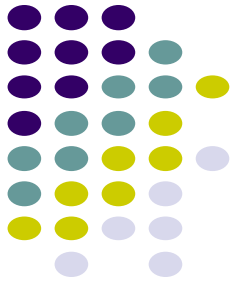
Jumper on "3V3"

VG-6831 Program Update [Connection]

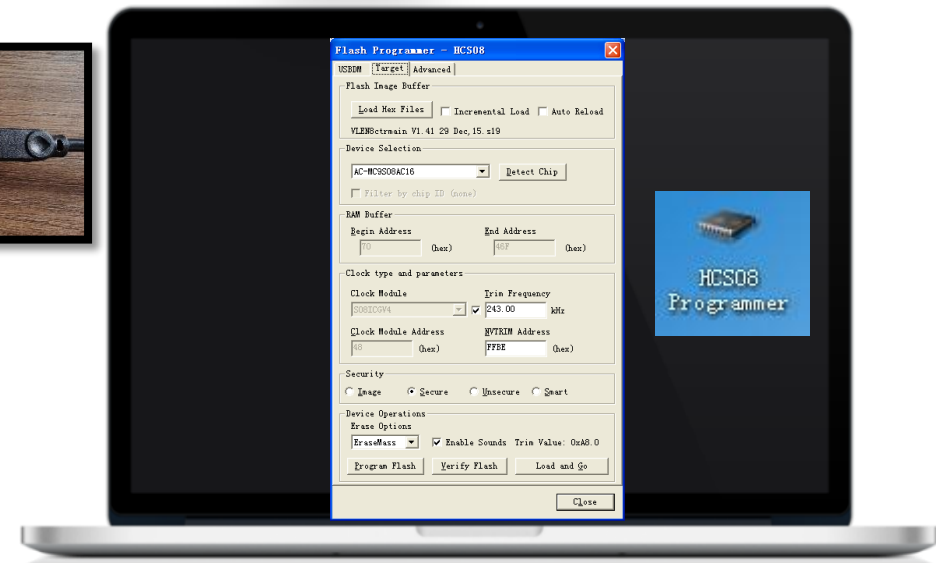
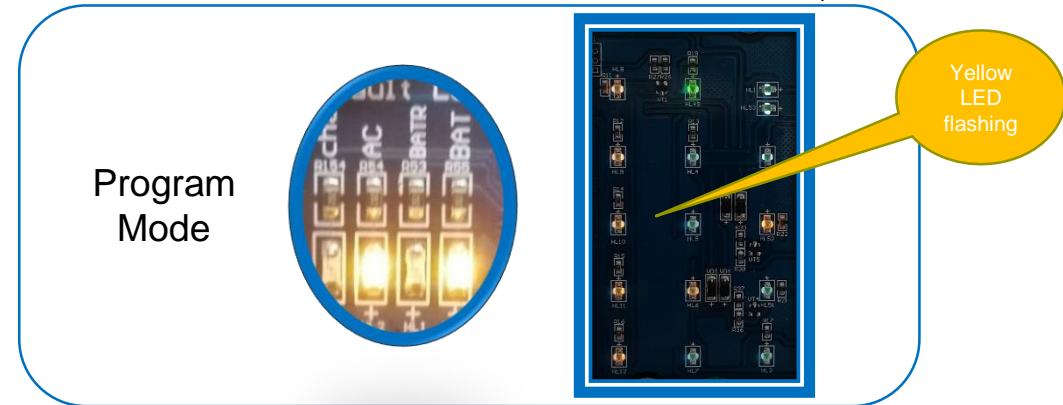
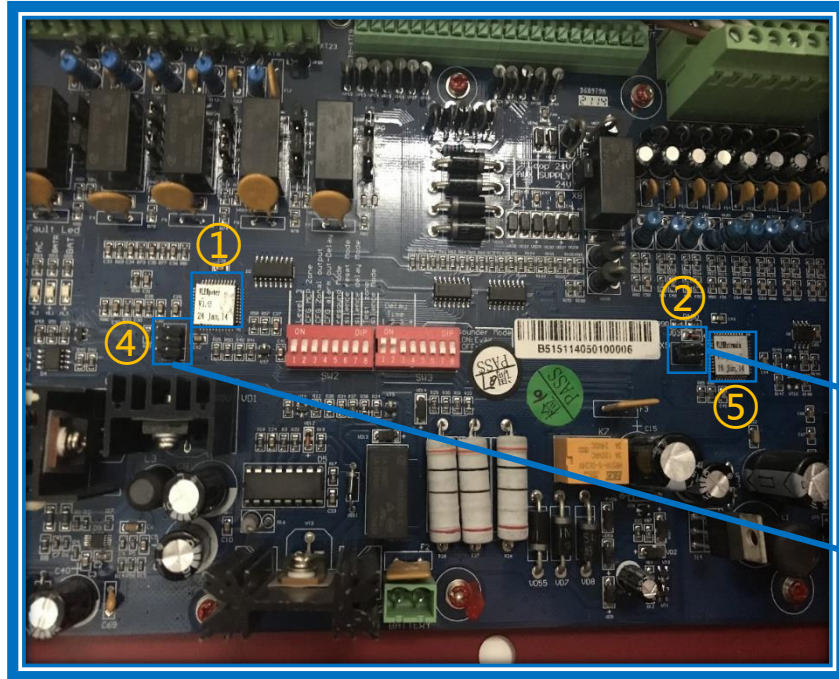


Yellow LED flashing

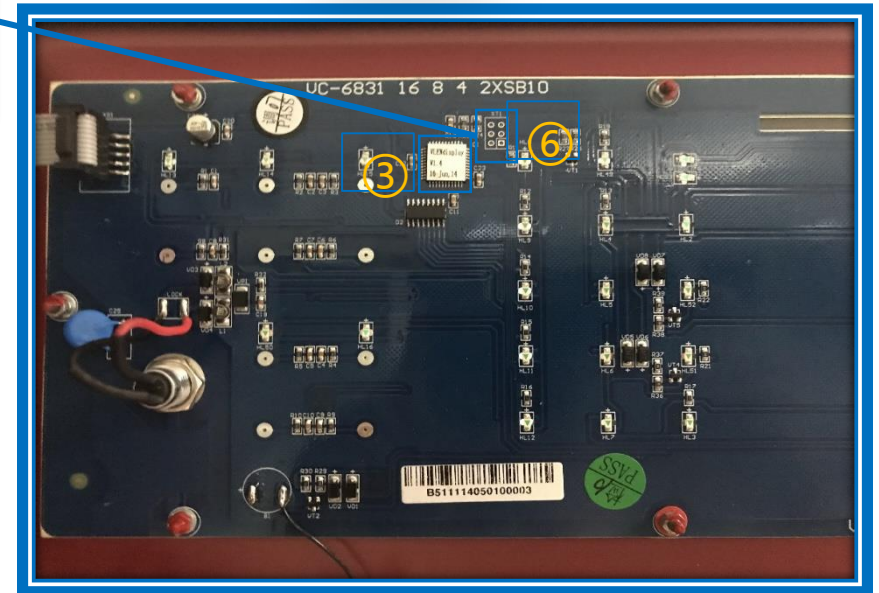
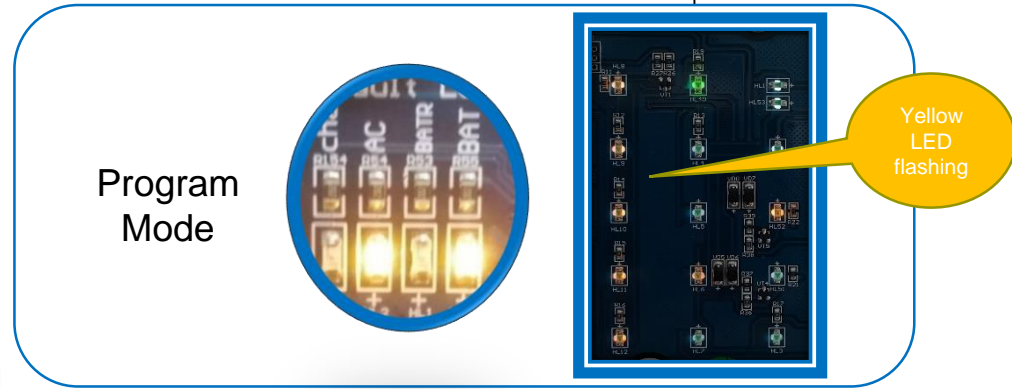
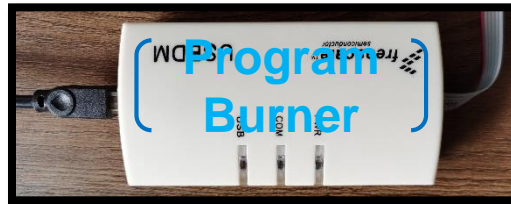
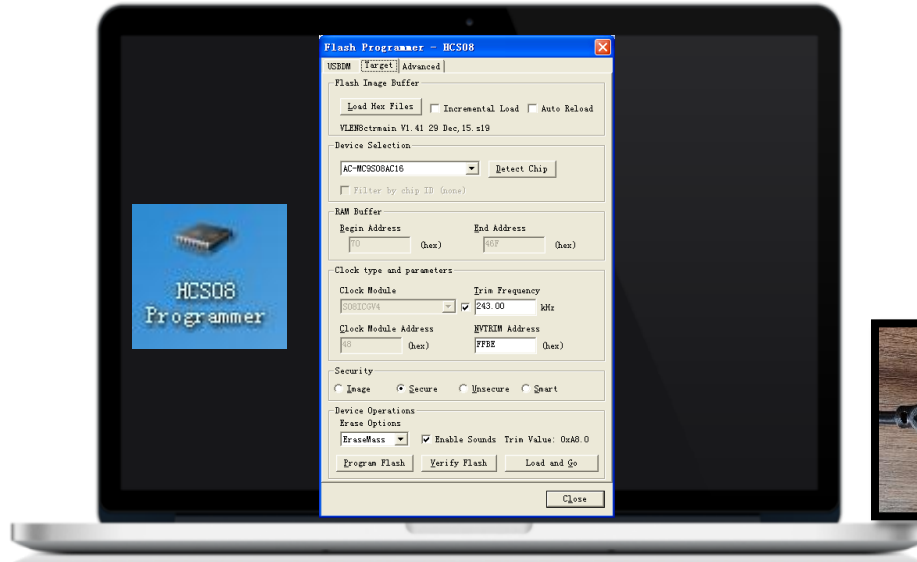
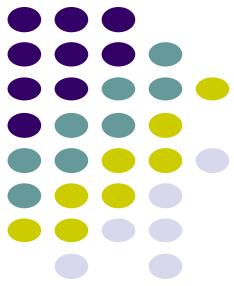


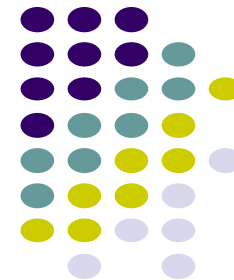


VG-6831 Program Update [Connection]



VG-6831 Program Update [Connection]



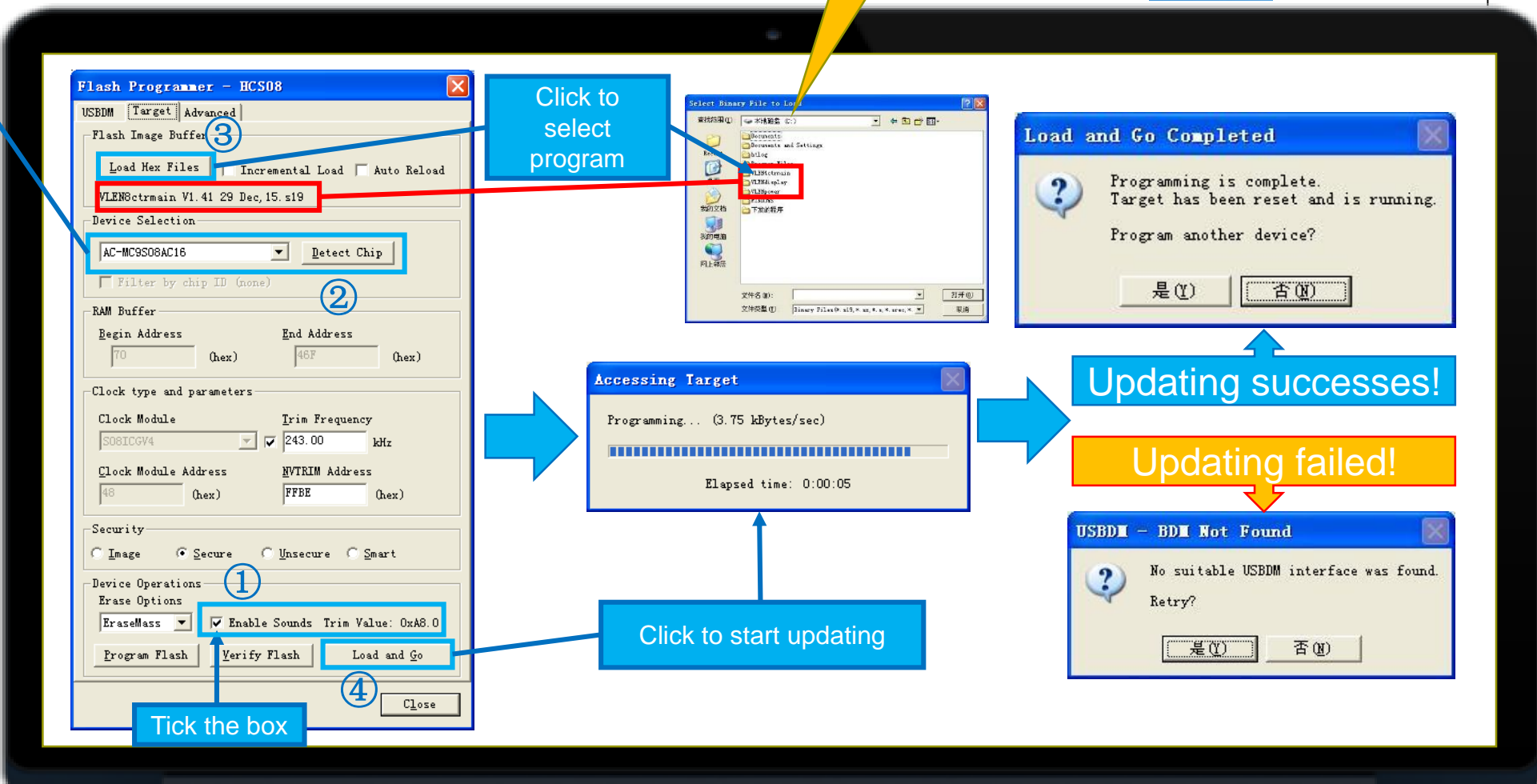


VG-6831 Program Update



File of program must be saved at root of Disk C!

Click to select CPU type
AC-MC9S08AC16



Click to select program

Load and Go Completed
Programming is complete. Target has been reset and is running. Program another device?
是(Y) 否(N)

Updating successes!

Updating failed!

USBDM - BD Not Found
No suitable USBDM interface was found. Retry?
是(Y) 否(N)

Accessing Target
Programming... (3.75 kBytes/sec)
Elapsed time: 0:00:05

Click to start updating

Tick the box

- AC-MC9S08AC16
- AC-MC9S08AC16
- AC-MC9S08AC32
- AC-MC9S08AC48
- AC-MC9S08AC60
- AC-MC9S08AC96
- AC-MC9S08AC128
- AW-S9S08AW8A
- AW-S9S08AW16A
- AW-MC9S08AW16
- AW-MC9S08AW32
- AW-MC9S08AW48
- AW-MC9S08AW60
- DE-MC9S08DE32
- DE-MC9S08DE60
- DN-MC9S08DN16
- DN-MC9S08DN32
- DN-MC9S08DN48
- DN-MC9S08DN60
- DV-MC9S08DV16
- DV-MC9S08DV32
- DV-MC9S08DV48
- DV-MC9S08DV60
- DV-MC9S08DV96
- DV-MC9S08DV128
- DZ-MC9S08DZ16
- DZ-MC9S08DZ32
- DZ-MC9S08DZ48
- DZ-MC9S08DZ60
- DZ-MC9S08DZ96
- DZ-MC9S08DZ128

Flash Programmer - HCS08

USBDM [Target] Advanced

Flash Image Buffer ③

Load Hex Files Incremental Load Auto Reload

VLENGctrmain V1.41 29 Dec, 15, s19

Device Selection

AC-MC9S08AC16 Detect Chip

Filter by chip ID (none) ②

RAM Buffer

Begin Address End Address

70 (hex) 46F (hex)

Clock type and parameters

Clock Module Trim Frequency

S08ICGV4 [x] 243.00 kHz

Clock Module Address NVTRIM Address

48 (hex) FFBE (hex)

Security

Image Secure Unsecure Smart

Device Operations ①

Erase Options

EraseMass [x] Enable Sounds Trim Value: 0xA8.0

Program Flash Verify Flash Load and Go ④

Close

Select Binary File to Load

File Explorer showing C:\ drive with VLENGctrmain V1.41 29 Dec, 15, s19 selected.

Load and Go Completed

Programming is complete. Target has been reset and is running. Program another device?

是(Y) 否(N)

Accessing Target

Programming... (3.75 kBytes/sec)

Elapsed time: 0:00:05

Updating successes!

Updating failed!

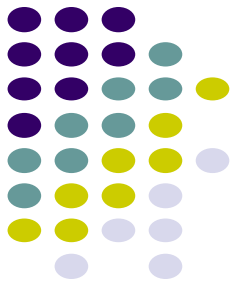
USBDM - BD Not Found

No suitable USBDM interface was found. Retry?

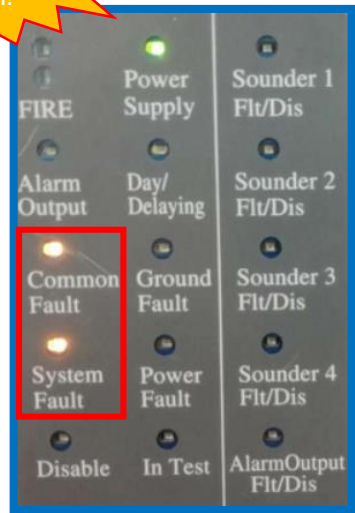
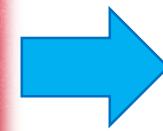
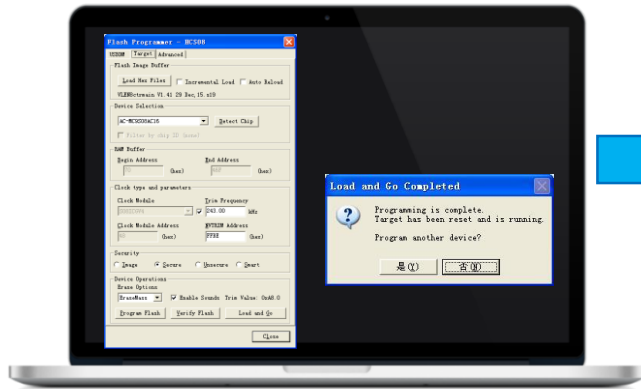
是(Y) 否(N)

Click to start updating

Tick the box

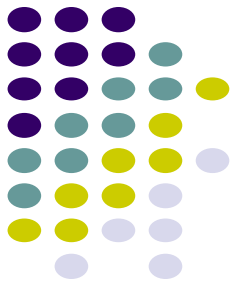


VG-6831 Program Update [Checking]



If the wrong program was updated, then there is System Fault indicated!

VG-6155 Tools Kit



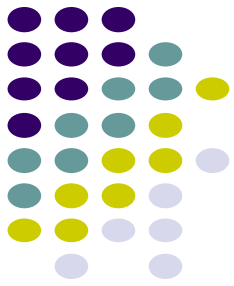
Tools

- VG-6160 Bluetooth Interface
- VG-6161 Bluetooth Adapter
- STM32 Programmer
- PL2303HXD Programmer
- **USBDM Programmer**
- USB Flash Disk
- Data Cables

Software

- Commission Software
- Power Calculator
- Mobile APP
- COM Tester
- Drive of STM32 Programmer
- Drive of PL2303HXD Programmer
- **Drive of USBDM Programmer**

VG-6831 Trouble Shooting



Problem	Reason	solution
No LED lights on power-up	a. Power doesn't work properly.	a. Replace the control board.
	b. Connection between the control board and display board is loose.	b. Check and reconnect the cable.
Reports Power Fault on switch on.	a. No AC power.	a. Check and apply AC power
	b. Battery is not fitted or 5A fuse is blown.	b. Connect the batteries or replace 5A fuse.
	c. Low battery.	c. If the problem still exists after the FACCP has been applied with AC power for over 24 hours, please replace the batteries.
Incorrect report on detection zone status or	a. Pin X1 to X5 on the control board are not set correctly.	a. Check settings of X1 to X5
	b. Control board damaged.	b. Replace the control board.
Settings cannot be saved	CPU D6 on the control board is damaged	Replace the control board.
The lock cannot be operated.	Connection line of lock is loose.	Check the connection.
Noise from Sounder	Not compatible Voltage or current	a. Check the EOLR b. check power supply c. Check the connection cable