

2012

Programming Manual

Sensors 9 in 1

V2.1



G4



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Before you begin this course

Before you begin this course, you should have:

- Understand the basic bus Diagram Connection Topology
- Understand the Lighting and HVAC Connections Diagram
- Basic Knowledge about IP setting. (please see 2-2)
- Basic Knowledge of using Windows operating system.
- Basic Knowledge of using Windows Painter.

Prerequisites

Either

- Products overview course.
- Installation Course.

How this course is organized

Lighting and HVAC Programming Guide Course Organized in Simple way of

Product overview, Example Picture, ( Notices) , ( Advices),
( Example) .

For Training Course Request Please apply online

www.smarthomebus.com

1- Introduction

Welcome to S-BUS manual Programming Guide, you are now a Beginner Programmer who will know soon how the S-bus Programming is simple.

1-1 Objective:

After this course you will be able to program the Lights Dimmers and relays with the switches Panel, Program curtain shades control, program the Air condition setting and DDP panel, create and download different Picture on the LCD, and start with Motion sensor and Automate your Project and many more...

1-2 S-Bus products:

S-BUS Products is vary with its powerful and multi functions, it have the high power dimmer and relay, Curtain, DMX and LED controller, Wall switches and Dynamic Display Panel "DDP", HVAC2 Air condition control and different type of sensors, like Motion sensor, light intensity sensor, Ultrasonic sensor, Dry input sensor, Analog input, current sensor, Power meter, Infrared receivers and transmitter, Security and Automation, Audio Module, Rs232, Programming and integrations Module



2- Start Programming

In smart home G4 there are two ways For Programming:

- ✚ Manual Way (For Basic Programming).
- ✚ Pc /Laptop Way (For Basic and Advanced Programming).

2-1 S-Bus Programming Software overview

You need on this lesson: to have your computer with you. Running on windows Operating system, Smart Cloud **G4** software, Programming port SB-DN-1IP, that enable you to search for all the devices that connected to the bus network.

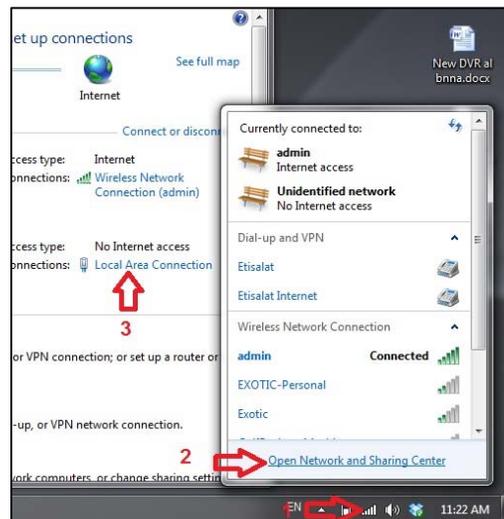
1- Install your S-bus configuration software in your Computer by pressing the **Setup** icon and follow the installation steps windows

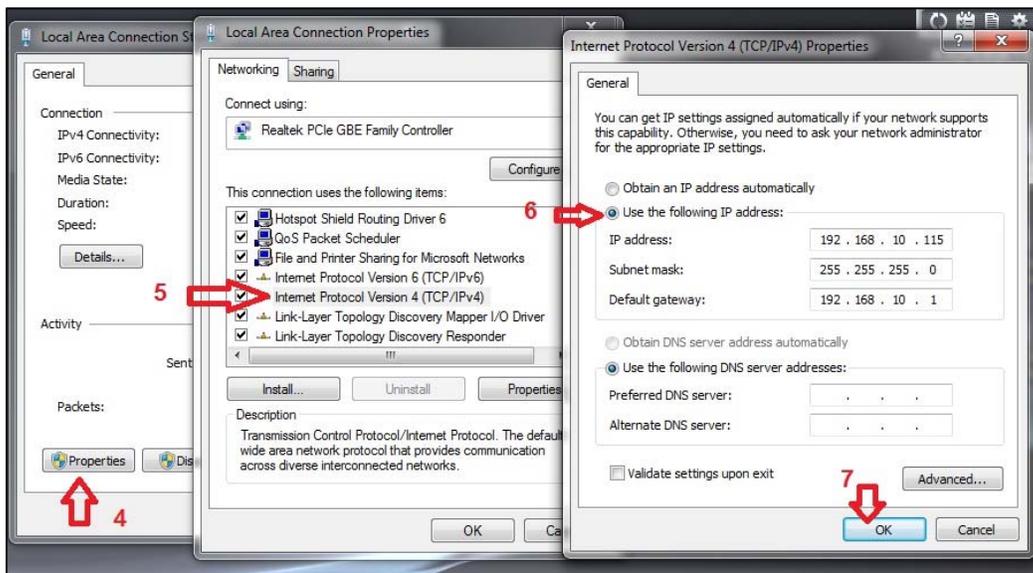
2- Plug in your Ethernet cable (Rj45) in your pc and the other end in the **RSIP** module or **Zaduio** module then **Set** your computer IP Address, for example

IP 192.168.**10**.115
Subnet 255.255.255.0
Gateway 192.168.**10**.1



The default address for S-bus Product is **192.168.10.xxx**

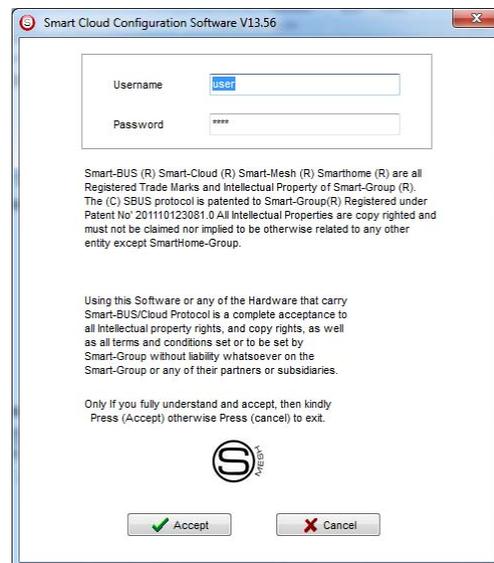




3- Run your S-bus smart cloud Software

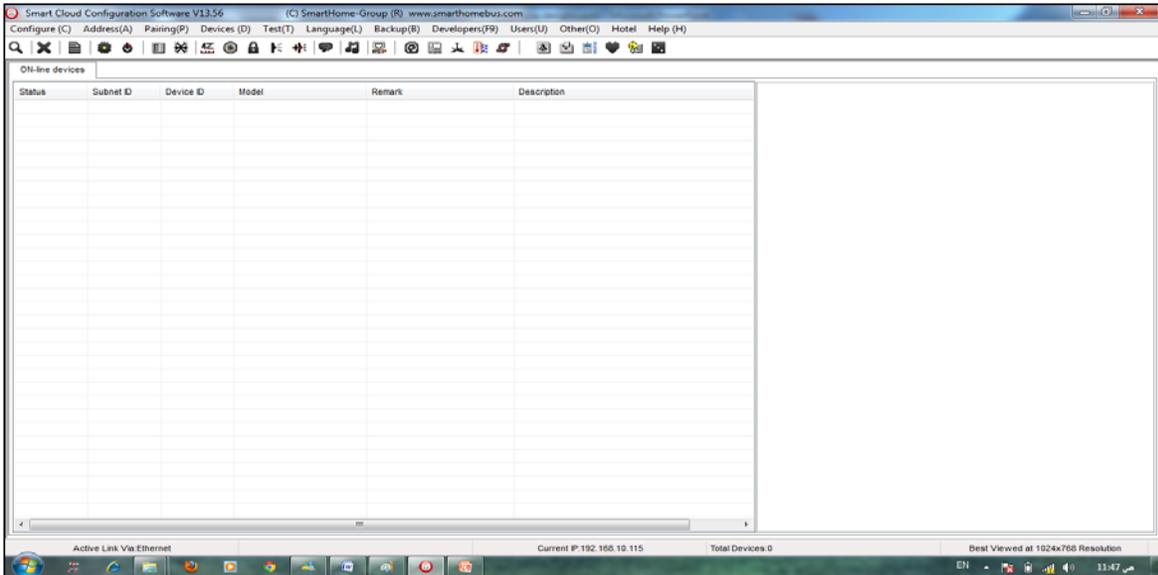


4- The Password window will open, type the default password is **user**



5- Your software will start





6- You can see your current IP on the footer of the software as 192.168.10.115 then your IP setting is ok.



! *Set your computer IP setting before starting the S-BUS Smart Cloud.*

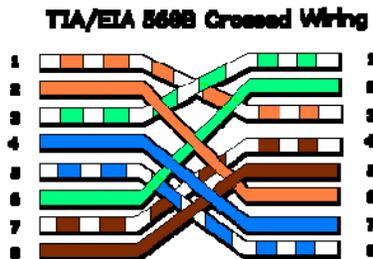
! *You should always reset your Module every time you change the IP Address in order the new setting to be Active.*

After you set your Module IP Address now you should connect the module to Your Computer Network in order to communicate. The connection can be in two ways

- 1- Connect the 1Port IP/RSIP Module to the HUB or Data Switch and connect your Computer to the same data Switch as standard straight cable Network wiring.



2- Without using the HUB or data switch you can use the cross cable to connect your computer directly to the IP Module, see the next cross wiring diagram of TIA/EIA 568B crossed wiring



You can use the **Line** command **Ping** to check your connection.

On your Computer, Go to start/ Run/ CMD then type Ping 192.168.10.xxx

If you see the following results similar to this Picture then your connection is successful

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>
C:\Documents and Settings\Administrator>Ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time=45ms TTL=64
Reply from 192.168.0.1: bytes=32 time=39ms TTL=64
Reply from 192.168.0.1: bytes=32 time=2ms TTL=64
Reply from 192.168.0.1: bytes=32 time=2ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 45ms, Average = 22ms

C:\Documents and Settings\Administrator>
```

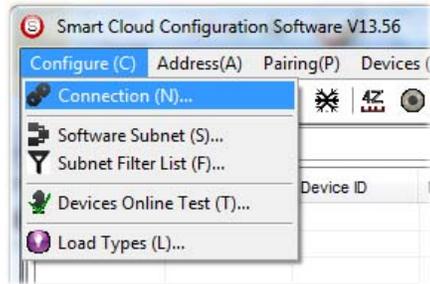


Always the Programmer should carry with his programming kit the cross cable for programming without needs of the Data Switch or HUB.



2-2 S-bus Smart cloud Software basic setting

Configure

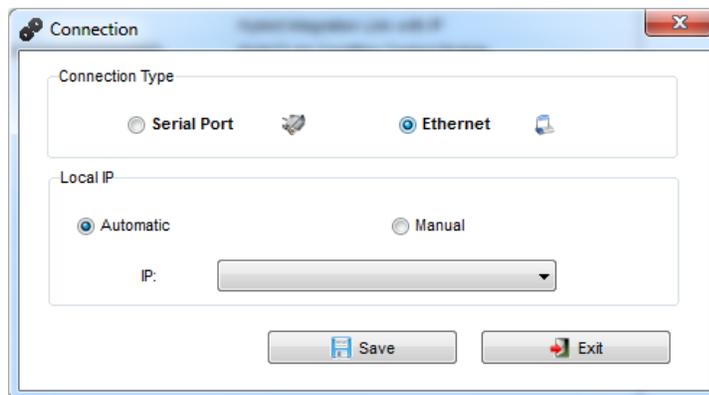


- **1- Connection**

You can change between Ethernet Connection and Serial Port connection,



the Serial Port connection is old, slow and no longer use. Always Keep the setting on Ethernet connection



Also you can choose between **obtain Local IP Automatically** (Default) , or to **input local IP Manually**.



Input local IP manually you can use it for example, if you are using in your laptop or computer Wireless and wired Network with different IP setting, and you want to choose the right one of it for programming, and don't want your S-bus software to detect your other IP address Automatically.



- **2- Software Subnet ID**

The S-bus configuration software have fixed Device ID (254), but you can change its subnet ID only, the default software subnet is (Default = 254)



The software default subnet ID address is 254, Device ID 254, this address must be unique, in case other Device has the same address you will not be able to find that Device unless you change the Subnet of the software.

- **3- Subnet Filter List:**

Here you can filter your subnet ID's that mean you can add more ranges if you have more than 254 devices so you can add another subnet ID

- **4- Devices On-Line test**

You can Deactivate or activate the auto test of Online devices (Activate is Default).

- **5- Load type**

You can add some Remarks to your Load type to use it as reference and print it out later on the excel sheet.

Address

Here you can search for the Device Addresses and load the Network and solve any conflict in the address. (For more Information see 3-2)

Pairing

You can enable pairing or disable either for one device or for all devices, disable meaning you can't program S-bus modules in manual anymore until you enable it again.

Devices

You can go here directly to Devices setting Categorized by type

Test

This is important Function to check your Lights Circuit by flashing the lights ON/OFF and then you can give it name (for more information see 3-3 section).

Language

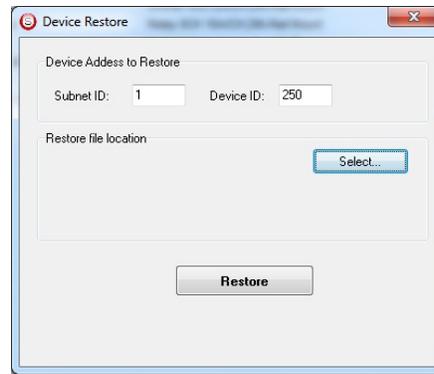
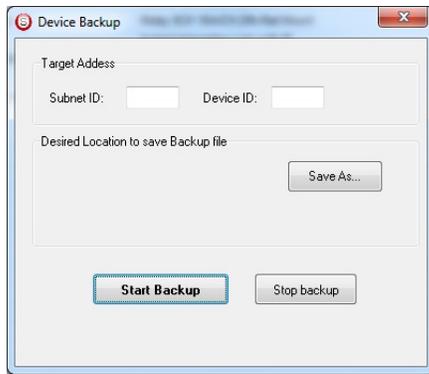
You can change the Language between English and Chinese, and other Languages

Backup

Important to backup and restore your Devices address and setting.

- For Backup: put the subnet and device ID for desire device , choose the location for the backup file then click "Start backup" ,
- For Restore: put the subnet and device ID for desire device, choose the backup which you already made then click "Restore".
-





2-3 Devices address and Search:

Each of S-bus Devices must have its own Address in the Network, the Address for each Device consist of 2 parts:

- ❖ **Subnet ID**
- ❖ **Device ID**

The subnet ID can be from 0 – 254

And the Device ID can be from 1 – 254

So you can put up to 65024 Deferent Devices in the same network with deferent subnet and device ID Address

For example one of Dimmer Module Address is (Subnet 1, Device ID 5)

There is 5 ways to Search for the Devices in the Smart cloud Software

- 1- Fast Search
- 2- Advanced Search
- 3- Manually Search
- 4- Broadcast Address Device Search
- 5- Solve Conflict address search

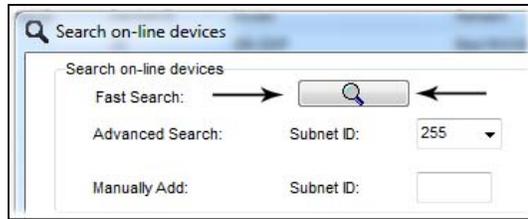
Fast Search

The Fast search is very useful tools to test your communication and search your devices Fast , the Fast search take around 2-15 seconds to finish load the devices information in your network.



- Click on the **Scan** button
- Click on the **Fast search Button**
- Click **add all**
- Click **Exit** to exit the Window





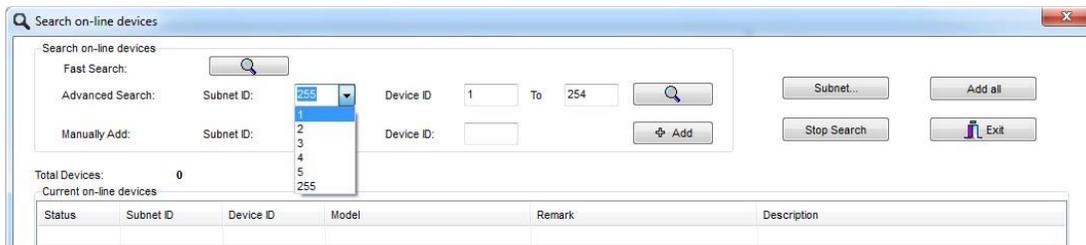
! *Fast search can't load all the Network Devices, it is only load part of the devices, it is only good for small project that contain around 10 devices, and to check the network communication with your PC.*

Advanced Search

The Advanced Search is a powerful tool for searching your Devices in the network. You can set the Subnet ID you like to search on it and select the range of device ID you want to search for.

Advanced search take 0.3 seconds for each device to load and total of 80 seconds to finish the search and load for 255 devices totally in each subnet.

- Click on the Online Search button 
- Go to **advanced search** , put the subnet ID and the range of device ID search



- Click **search ICON**
- Click **ADD ALL** after the search finish
- Click **Exit** to exit from the window
- click **stop** to stop the search
- Click **subnet** to add new subnet to the popup Menu subnet list



Use the Advanced Search Always as your standard way to Load the Devices in the Network to your computer before you program in any new project.



Manual Search

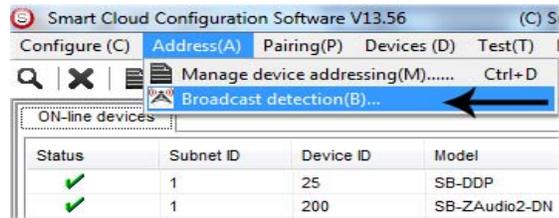
Manual Search is a very fast and useful way to add known Device ID and subnet to your network

Manually Add:	Subnet ID:	<input type="text"/>	Device ID:	<input type="text"/>	<input type="button" value="Add"/>
---------------	------------	----------------------	------------	----------------------	------------------------------------

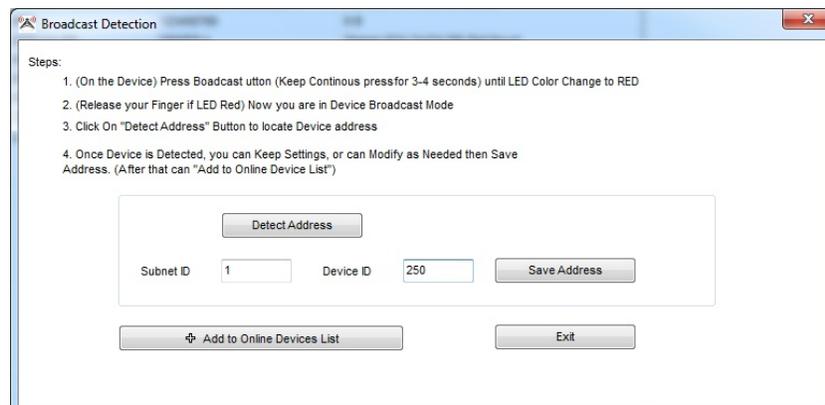
- Type the subnet and device ID that you know
- Click ADD
- Exit the Menu

Broadcast Address Device Search

This tool is important when you add new devices or you start your new Project installation, many devices could have the same Address or the communication is not yet tested, this tool is important to check the communication between your device and the bus network and to change its initial address in the first time installation.



- On your software Click **Address** then **broadcast detection**
- Go to your device like Dimmer / Relay / sensor or Panel and keep pressing the **broadcast Address button** for 2 ~ 4seconds until the button LED color change to **RED**.
- In your software in the Broadcast Detection window click the **Detect Address Button**.
- Your Device ID and Subnet well appear automatically
- To change the address just type the new subnet ID or device ID you want then click **Save Address**
- Click **ADD to online device list** to load your device in the Devices Network List.
- Click **Exit** to Close the Window

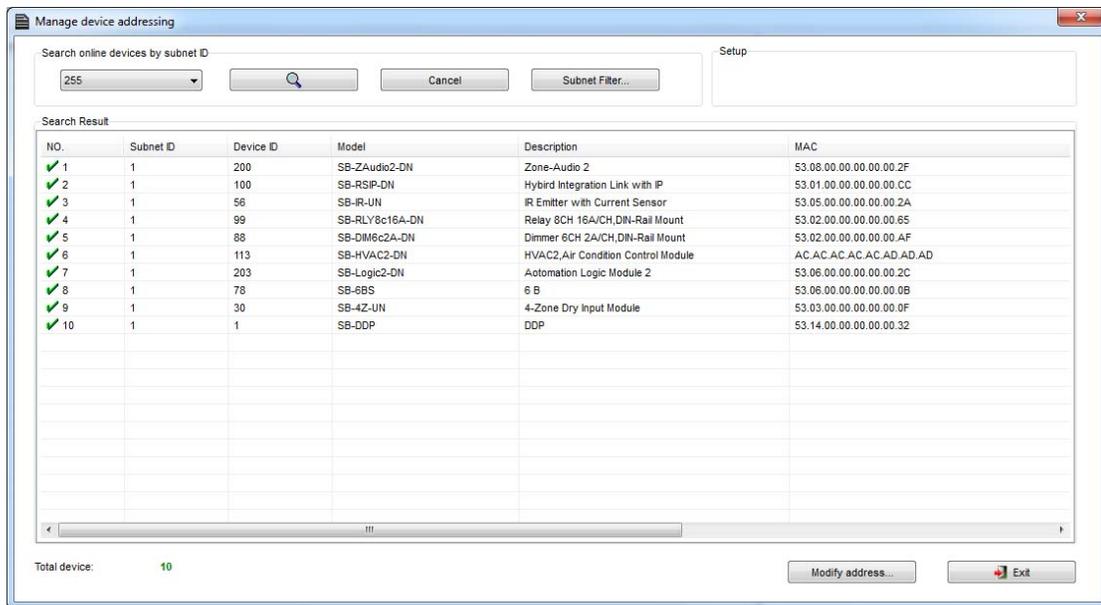




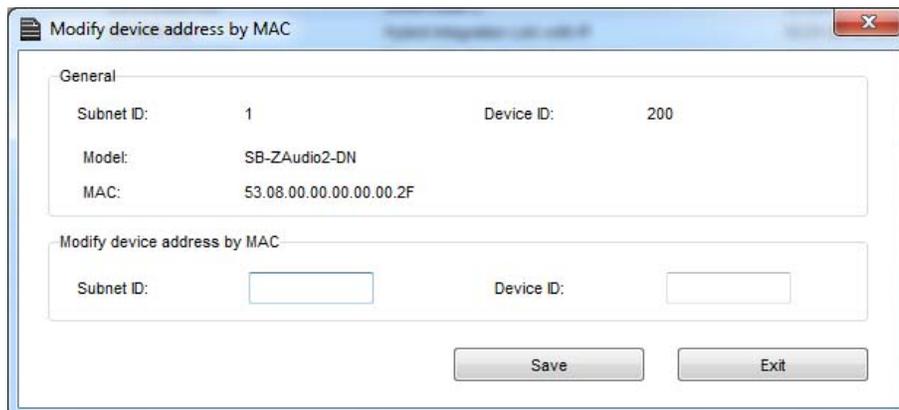
Solve Conflict address search

This type of search used to solve the conflict address, for example if 2 devices have the same address, then you can easily change the address of it without the need of disconnecting its wires from the network.

- Click **Address** or click the Address Shortcut icon 



- Select Subnet **255 (recommended)** or any desired subnet then click the search icon.
- Select the device you want to modify its address then click **modify Address** or double click on it
- New window will open, and then type the new Subnet ID and Device ID, then Click **Save**



2-4 Steps of Basic Programming

The Basic Programming for Lighting Motor and HVAC of S-bus Products has procedure of Basic Steps as following

- A- Check the communication between your computer and the Bus
- B- Broadcast each Dimmer, Relay, Motor curtain HVAC control++ initial Address
- C- Change the initial addresses to the desired one (**kindly check 2.5 for addresses range**).
- D- Give name of each Dimmer, Relay Module (Remark).
- E- Check each Lighting channel circuit if working and connected good
- F- Give name for each channel (remark).
- G- Make an excel sheet for all your Dimmers, relays, other module address and circuit name.
- H- Make Area for each Dimmer, Relay module if required .
- I- Make Scene and Sequence for each Module if required .
- J- Make safety power restore and delay time for scenes and safety as required.
- K- Check the curtain module gives it address and name.
- L- Set the channel name, the running time open and close running time.
- M- Give the switch (6 gangs) and panel (DDP) its addresses and Name.
- N- Assign the panel button to the corresponding scene or channel.
- O- Set the button graphic picture for the DDP for each button.
- P- Check the HVAC address give it address and name.
- Q-Set on off relay sequence.
- R- Set the VAV Voltage output if required.
- S- Set the safety HVAC running sequence T- assign the DDP Panel to its HVAC unit.
- U- Set the FAN speed, cool set point, type, adjust temperature sensor on the panel setting.
- V- Set the required graphic for AC, and panel basic setting
- W- Search for PIR motion sensor and give it address and name
- X- Set the sensitivity, way of triggering, motion, no movement delay and commands
- Y-connect the Z-audio 2 to the s-bus And address it
- Z-Test and enhance your programming.



Following the basic Programming steps procedure will save the programmers time and effort.

2-5 What is The Magic Line In our software ? :

In programming in all S-bus Modules you will find the same line with same fields that's why we called it "Magic Line" .

If you want to send any command you have to use this magic line.

Modify button function configuration						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	50	Invalid switch	1	2	N/A
2	10	11	Invalid switch	12	13	N/A
3	255	255	Invalid switch	255	255	N/A
4	255	255	Invalid switch	255	255	N/A
5	255	255	Invalid switch	255	255	N/A

If you notice the Command Line is contained of :

Function No. : indicated to Order/Function Number , the maximum order you can put is depend of the module .

Subnet ID : each device has subnet ID in our software you can put up to 254 subnet ID.

Device ID : additional to the Subnet ID also each device must has unique ID to avoid the conflict . and the range is 254.



Each Subnet ID can cover 254 devices and we have 254 subnet ID that means the total Number is 64516 devices.

Type : What type of order you want to send, if you notice in the following pic the system has many types depend on the module

Modify button function configuration						
Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	50	Scene switch	1	2	N/A
2	10	11	Invalid switch	12	13	N/A
3	255	255	Scene switch	255	255	N/A
4	255	255	Sequence switch	255	255	N/A
5	255	255	Universal switch	255	255	N/A
			Single channel lighting			
			Curtain switch			
			SMS control			
			Panel control			
			Broadcast scene			
			Broadcast channel			
			Security module			
			Zone-Audio 2			

Parameter 1 ,Parameter 2 and Parameter 3 are related to "TYPE" field like this Table :

Function type	Parameter 1	Parameter 2	Parameter 3
Invalid	N/A	N/A	N/A
Scene Switch	Area Number	Scene Number	N/A
Sequence Switch	Area Number	Sequence Number	N/A
Universal Switch	Switch Number	ON / OFF	N/A
Single channel	Channel Number	Brightness 0-100%	Fade time 0S - 60 M
Curtain Switch	Switch Number	Stop / ON/ OFF	N/A
SMS	Message	Message SMS Number	N/A
Panel	Invalid	N/A	N/A
Panel	IR Receiver	ON / OFF	N/A
Panel	Lock	ON / OFF	N/A
Panel	AC Power	ON / OFF	N/A
Panel	AC Cooling	0-30 C , 32- 86F	N/A
Panel	ACFan Speed	Auto/high/med/slow	N/A
Panel	AC Mode	Auto/Cooling/Heating/FA	N/A
Panel	AC Heating	0-30 C , 32- 86F	N/A
Panel	Rise temp	0-30 C , 32- 86F	N/A
Panel	Reduse temp	1-5 C/F	N/A
Panel	LCD Backlit	ON / OFF	N/A
Panel	LCD status ligh	1~100	N/A
Panel	Floor heating power	ON / OFF	N/A
Panel	Floor heating mode	Normal-day-night -away	N/A
Panel	Goto page	1~7	N/A

Function type	Parameter 1	Parameter 2	Parameter 3
Broadcast scene	All Areas	Scene Number	N/A
Broadcast Channel	ALL Channel	Brightness 0-100%	Fade time 0S - 60 M
Security Module	Area Number	Arming Mode	N/A
Zone-audio 2	Source Control	SD Card/Audio In/FTP Server/FM Radio	N/A
Zone-audio 2	Play Mode	No Repeat/ Repeat Song/ Continued/ Repeat all	N/A
Zone-audio 2	Play List/Radio Channel	PREV Play List/Next Play ListSpecify Play List No/PREV	N/A
Zone-audio 2	Play Control	PREV Song/Next Song/Play/Stop	N/A
Zone-audio 2	Volume	VOL	0-100
Zone-audio 2	Volume	TREBLE	Reduce/increase
Zone-audio 2	Volume	BASS	Reduce/increase
Zone-audio 2	Play Specify Song	Folder No.	Song No.

3- 9in 1 Sensor PIR Programming

3-1 S-BUS 9 in 1 sensor Overview

Smart bus have perfect sensor for ceiling and wall type, this sensor is used multi function one of them for trigger the lights on automatically and to turn the lights off if no movement for desired minutes for saving energy

3-2 PIR 9 in 1 sensor setting

Double click on the 9 in 1 sensor on the List

- Go to "Logic" tab.

The screenshot shows the '9 in 1 Multifunction Sensor' configuration window with the 'Logic' tab selected. The window has tabs for 'General', 'IR Emitter', 'IR Receiver', 'Logic', and 'Security'. The 'Logic' tab contains a 'Select device' dropdown menu set to '1-31-SB-9in1T-CL'. Below this, there are input fields for 'Room brightness' (0) and 'Motion sensor Sensitivity(1-100)' (57), along with 'Departure time' (3). A 'Logic' table is displayed in the center, and a 'Confirm' button is visible. On the right side, there are fields for 'Logic No. 1' (Sensor: Valid), a 'Modify Status Synchronous' checkbox, a 'Remark' field, and 'Save' and 'Edit' buttons.

Logic No.	Remark	Sensor
1		Valid
2		Valid
3		Invalid
4		Invalid
5		Invalid

- You will find on the left side the "Lux" sensor section which is measure the brightness for this area.

To read the current value just press "**Read**" button.

- You will find also "Motion" Sensor section , here you can change the **sensitivity** for the sensor and the **Departure** time which is the time you want to switch off the Light of sensing .

LUX sensor

Room brightness

Motion sensor

Sensitivity(1-100)

Departure time

In the middle you have the events list:

Input Logic No. from (1-32) To

Logic

Logic No.	Remark	Sensor
1	movement	Valid
2	no movement	Valid
3		Invalid
4		Invalid
5		Invalid

Logic No.1

Sensor

Modify Status Synchronous

Remark

Edit Logic

For example logic No.1 for " **movement** " event that mean when is there any movement the "X" of commands will execute.

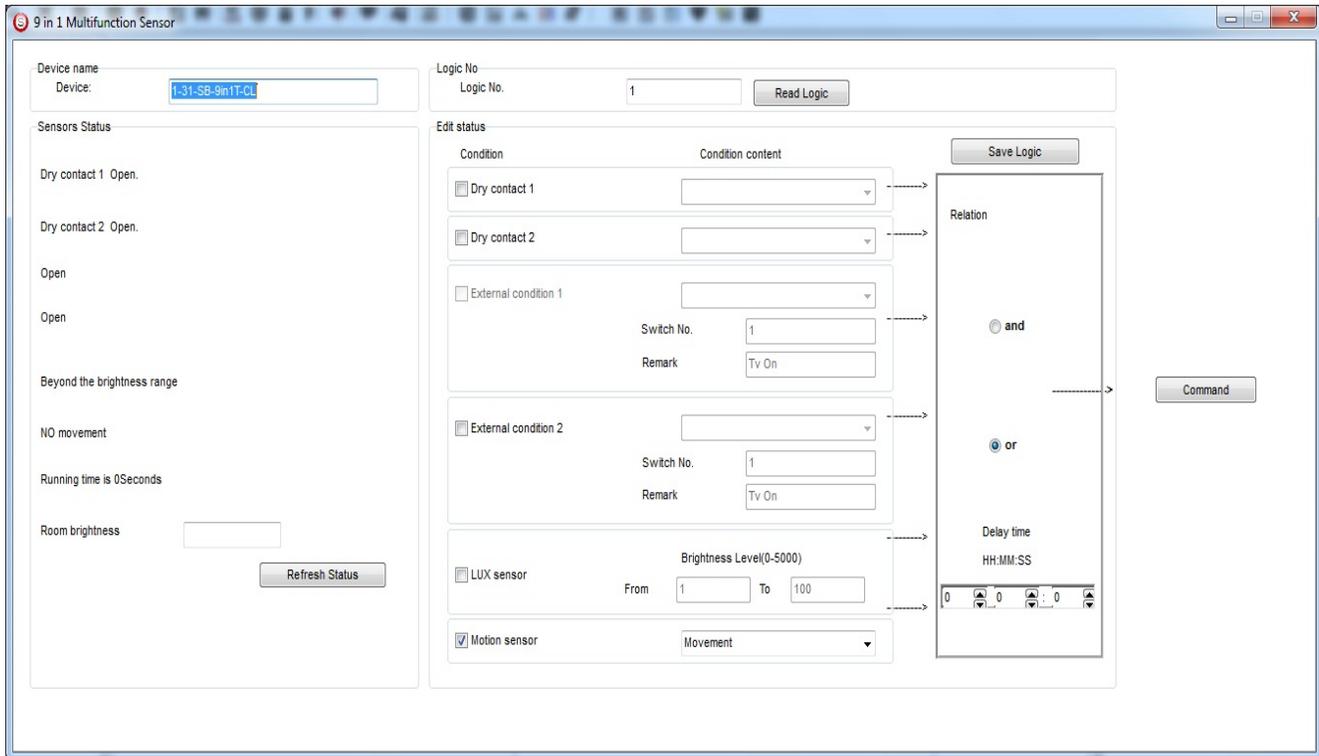
 **"Movement "** it's just a name , you can put any remark you want from "remark" field .

 You can create up to 32 events .

In the previous picture we create two events **movement** , **no movement**

 To create any event must **valid** it from the same window in sensor section, then remark it, if you don't want this event any more you can easily **invalid** it .

- To Edit the event press **Edit** button from edit logic section



 All what you see now just for event No.1, double click on Event 2 from the events list then you will see deferent window.

This window it's divided for two section : **status** and **Edit** section.

In **status** section you can check:

- Two dry contact status (built in **9in1**).
- Two external conditions status (for more info check (**Logic Module** programming manual)).
- Motion sensor status.
- Room brightness value.

In **Edit** section you can configure:

- Two dry contact.
- Two external conditions.
- LUX sensor (Brightness sensor).
- motion sensor.

Edit status

Condition	Condition content
<input checked="" type="checkbox"/> Dry contact 1	Connect
<input checked="" type="checkbox"/> Dry contact 2	Disconnect
<input type="checkbox"/> External condition 1	<div style="border: 1px solid #ccc; padding: 2px; width: 100%; height: 20px;"></div> Switch No. <input type="text" value="1"/> Remark <input type="text" value="Tv On"/>
<input checked="" type="checkbox"/> External condition 2	ON Switch No. <input type="text" value="1"/> Remark <input type="text" value="Tv On"/>
<input checked="" type="checkbox"/> LUX sensor	Brightness Level(0-5000) From <input type="text" value="1"/> To <input type="text" value="100"/>
<input checked="" type="checkbox"/> Motion sensor	Movement

Also you will notice the **Relation** block, this is very important block:

Save Logic

Relation

and
 or

Delay time
HH:MM:SS

0 : 0 : 0

Command

Here you choose how many condition you want at the same time.

Example : If I put the conditions in the **Edit status** section like the following :

The screenshot shows the 'Edit status' configuration window. On the left, there are six condition rows. The first two are 'Dry contact 1' (Connect) and 'Dry contact 2' (Disconnect). The next two are 'External condition 1' and 'External condition 2', both with 'Switch No.' set to 1 and 'Remark' set to 'Tv On'. The last two are 'LUX sensor' (Brightness Level(0-5000) with 'From' 1 and 'To' 100) and 'Motion sensor' (Movement). On the right, the 'Relation' section has 'and' selected. Below it, the 'Delay time' is set to '00:00:00'. A 'Command' button is on the far right. Arrows indicate that the 'LUX sensor' and 'Motion sensor' conditions are linked to the 'and' relation, and the 'Delay time' is linked to the 'Command' button.

THAT mean : if the brightness in the room between **1 and 100**

AND

If there is **movement**

Then execute whatever you put in **command** button after **zero** delay time

! **Movement** here not remarks its fixed indicating if there is movement or not

EX2: what if I want to turn on light if there is **movement** and turn it off if **no movement** after 20 min ?

A- We have to create two events with any remark ,one for movement and one for no movement.

- For movement event we have to put check just on **motion sensor** and choose **movement**.

Motion sensor Movement

- Press **Command** button and put your Light address

Modify commands

Command NO	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
0	1	50	Single channel lighting	1(Channel no.)	100(Intensity %)	0:0(Running time(mm:ss))

B- In the event No. 2 we have to assign it to switch off the light if there is no movement after 20 min.

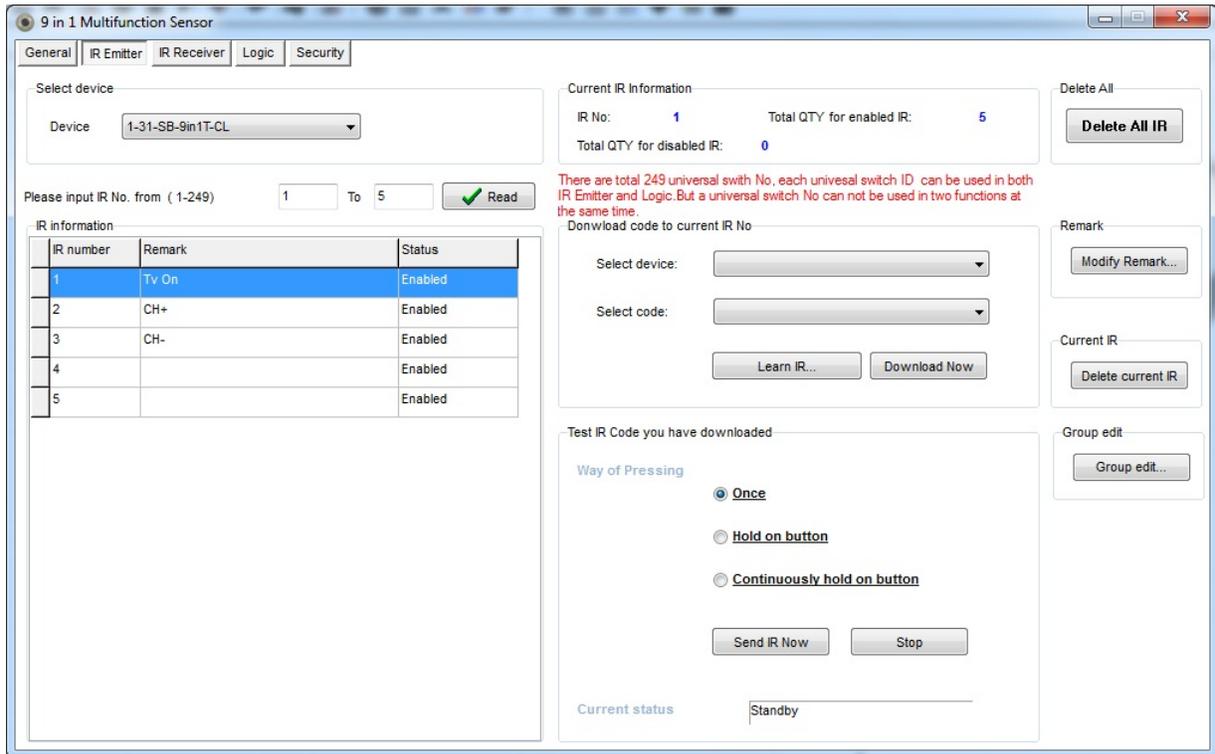
Put check the motion sensor and choose **no movement** and in delay time put 20 on min field .

LUX sensor Brightness Level(0-5000)
From To

Motion sensor No movement

Delay time
HH:MM:SS
0 : 20 : 0

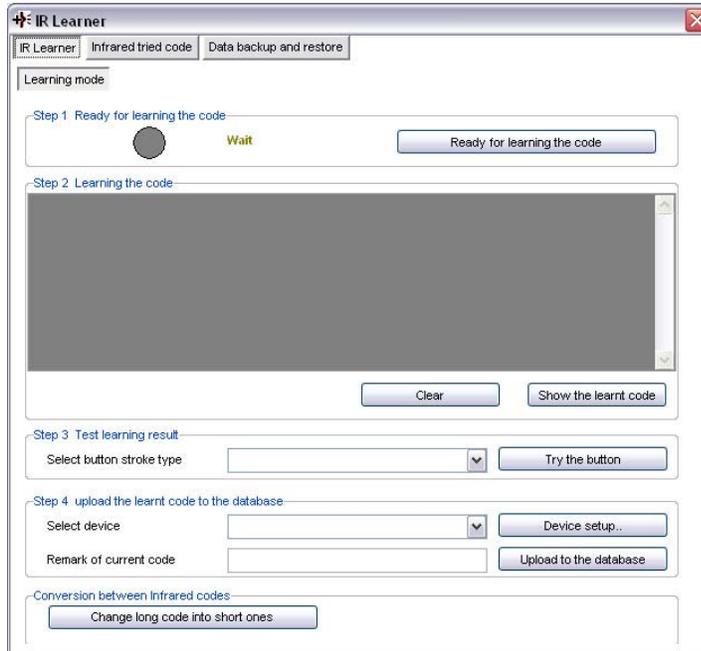
3-3 Learning and send IR codes :



If you want to control any devices has a remote you need first to save its IR codes, For that, connect your IR Learner install the driver (WIN XP):



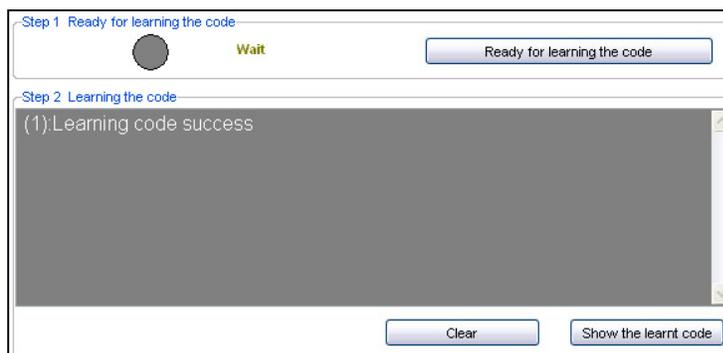
- Press **Leran IR** button you will get this window :



- Click on **Ready for Learning** button the grey circle it will be green :



- Put your Remote in front of IR learner and press the desire button you want to its code.
- Once you press you will get the success notification :



- Now Select single press then go to Device setup

Step 3 Test learning result

Select button stroke type

Step 4 upload the learnt code to the database

Select device

Remark of current code

- Create new device with remark then click on add :

Device setup

ID	Remark
1	Smart IR Remote(Big)
2	AUX AC

Add device

Remark

Edit device

ID:

Remark

- Click Exit
- after you create your device you can choose it from **select device** (I choose T.V remote)
- Remark your code to recognize it later Ex : **CH+**
- Click **upload to data base** button.

Step 4 upload the learnt code to the database

Select device

Remark of current code

- High light on any row in **IR Information** table (I chose No.1)
- Go to **Download code** section choose your device and code
- Click **download now**.

Please input IR No. from (1-249) To

IR information

IR number	Remark	Status
1	TV REMOTE_CH+	Enabled
2	CH+	Enabled
3	CH-	Enabled
4		Enabled
5		Enabled

Download code to current IR No

Select device:

Select code:

-) to send this code through **DDP** just choose any button :

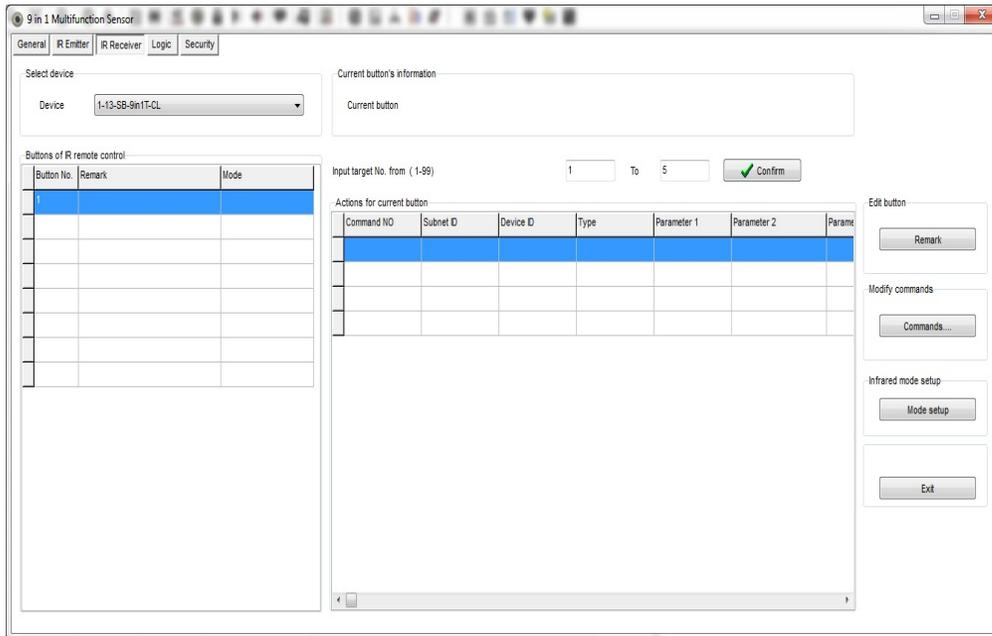
Modify button function configuration

Function no.	Subnet ID	Device ID	Type	Parameter 1	Parameter 2	Parameter 3
1	1	31	Universal switch	1	On	N/A

Device ID= 31 → your **9 in 1** ID
 Type = Universal → must be to send IR code
 Parameter 1 = 1 → where we save our code (CH+)
 Parameter 2 = on → to execute the command

3-4 IR Receiver Tab :

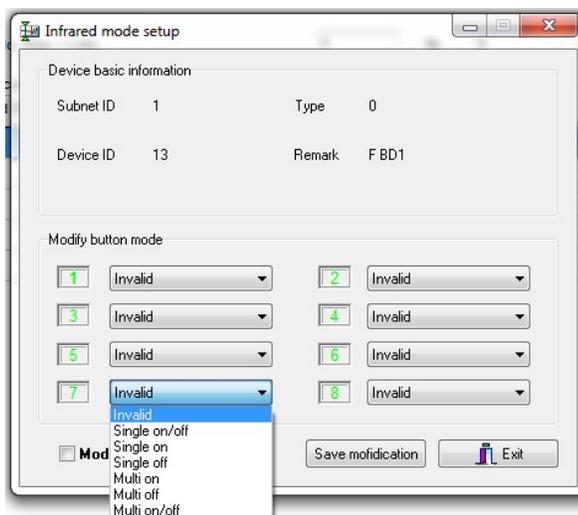
Here in this tab you can receive up to 8 different codes from our smart Remote . That mean if you press Button No.1 from smart home remote the 9 in 1 sensor will receive this order and execute whatever you program in field NO. 1 and the same for No2 No8



each Button can cover up to 99 commands.

- On the Right side you will find the Utility buttons:

- Remark : as a programmer you can put remark for each button.
- Commands : To modify the S-bus commands for each button.
- Mode setup : you can change the mode for each Button like Multi on or single channel...etc



3-5 Security Tab:

You can use 9 in 1 sensors for security also , and because of these type sensors has also two dry contact you will notice in the **Sensor** section the options :

- Two dry contact that can connect any dry contact (indoor magnetic ,smoke detector ...)
- Motion sensor.

Sensors		
SN	Sensor	Remark
1	Dry contact 1	
2	Dry contact 2	
3	Motion sensor	

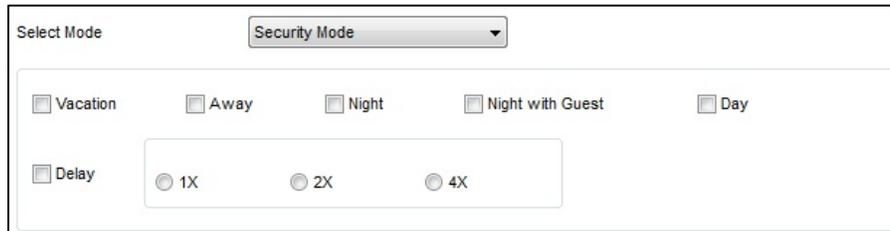
- For **each** type of sensors you have **Security** section like this :

Security			
Dry contact 1	Remark	<input type="text"/>	
<input type="checkbox"/> Enable Security			
Select Condition			
<input checked="" type="radio"/> N.C		<input type="radio"/> N.O	
Security Module:	Subnet ID: <input type="text" value="1"/>	Device ID: <input type="text" value="251"/>	Area: <input type="text" value="1"/>

- Remark: Just remark for you as programmer.
- Enable Security: to activate or deactivate the current sensor.
- Select condition :depend on you dry contact if **Normally open** for Ex like smoke detectors or **Normally close** like indoor magnetic.
- Security module : put the security module address that you install already in the same site.

-Also for each type of sensors there are two modes:

- 1- Security mode
- 2- 24 Hours active Zone.



1- Security mode

In security mode you have a lots of sub mode like :
Vacation-Away-Night-Night with Guest-Day

 : you can choose any mode any apply it to your sensor.

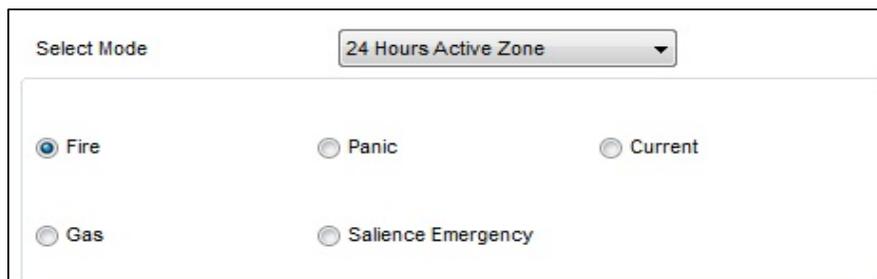
 : If you want to active this sensor just for **Away** mode; that mean when you arm/ active the **Night** mode from DDP this sensor will be ignore unless you arm/active the **Away** mode.

- Delay : after how much time you want to let this sensor to trigger .

 : if you choose 2x that mean 2 times of the value that you put in security module in basic setting.

2- 24 Hours active Zone.

In this mode you have a lots of sub mode like :
Fire-Panic-Gas-Salience Emergency



For More info please Enjoy our youtube channel : <http://www.youtube.com/SmartG4/>

