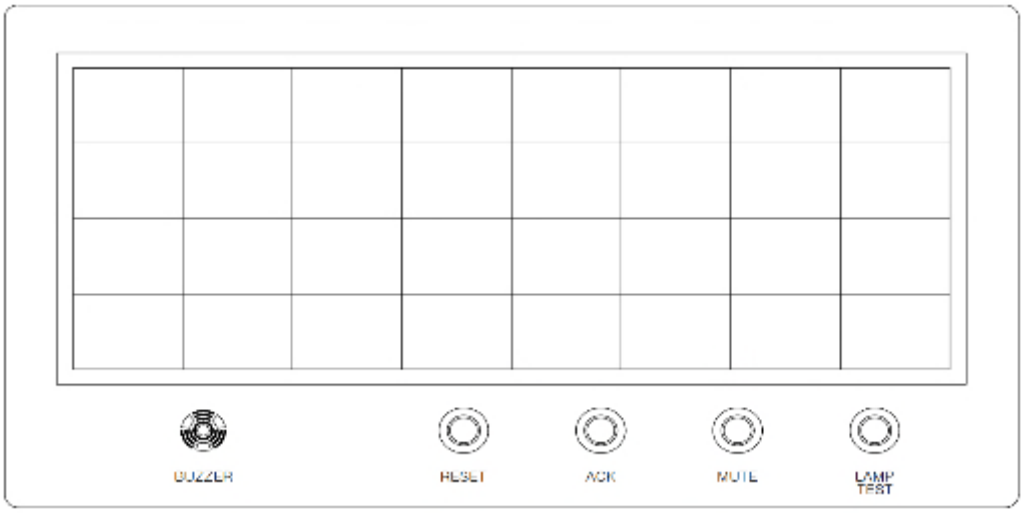
Annunciator System
(ANSB Serise)



- TABLE -

■ **Main Items**

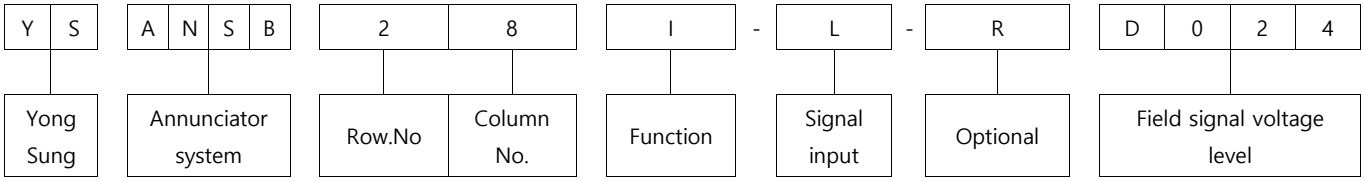
Timers, Floatless, Temperature Controller, Meters, Annunciator System,
Proximity Sensor, Buzzer, Square Lamp, Cam Switches,
Pilot Lamps, Terminal Blocks, Relays, Nuclear Items

■ **Address**

194, Baekgogae-gil, Gonjiam-eup, Gwangju-si, Gyeonggi-do, Korea
Tel : +82-02-2244-5478, Fax : +82-02-2249-2248
E-mail: overseas@yongsungelec.co.kr
Web-site : http://www.yongsungelec.co.kr

YongSung Electric Co., Ltd.

1. Type Classification Diagram



		B : Basic	L : Lock In	No Mark : General	D024 : DC24V
2 : 2 Row	8 : 8Column	I : Inspection	N : Non Lock		D048 : DC48V
3 : 3 Row	8 : 8Column	R : Ring Back		R : RS485 Communication	D110 : DC110V/DC125V
4 : 4 Row	8 : 8Column	F : First out			D220 : DC220V

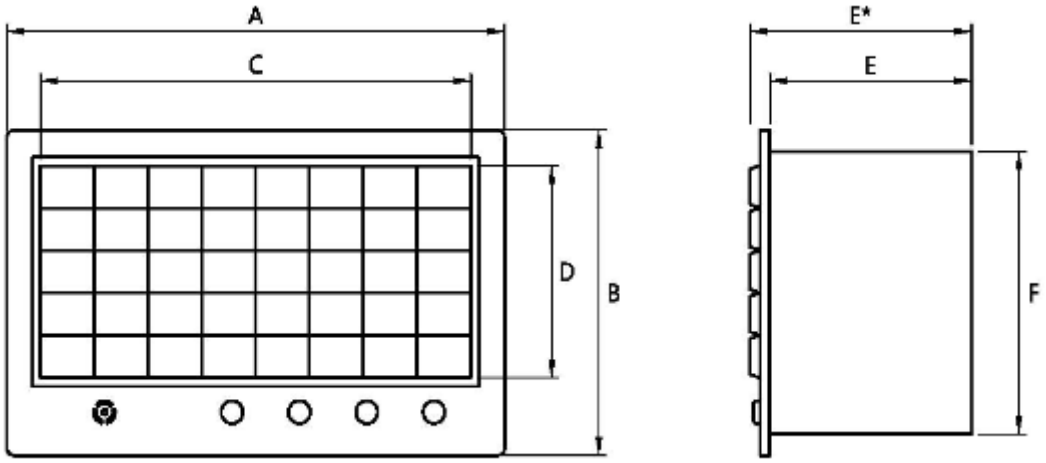
2. Performance Summary

Rating Volatage	DC24V, DC48V, DC110V, DC125V, DC220V
Field Signal Voltage Level	DC24V, DC48V, DC110V, DC125V, DC220V
Fault Signal Type	Normal Open
Withstand Voltage	1,500VAC 60Hz/min
Insulation Resistance	Above 100㏁ (500VDC Meg)
Lamp Lated	Below DC24V 20mA
Lamp Color	Red, Green, Yellow, Orange, Blue, White
Ambient Temperature	-10℃ ~ +50℃
Relative Humidity	45 ~ 85%
Buzzer Sound	1EA (Approx 80dB)
Front Control Switch	4EA (Reset, Acknowledge, Mute, L/T)
Optional	RS485 Communication
POWER Consumption	16CH : About 13W 24CH : About 25W 32CH : About 30W
Quality Assurance	One year after receipt of goods

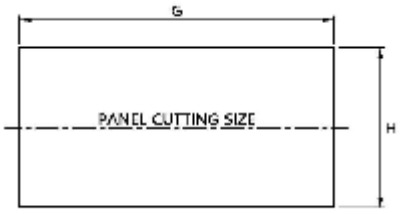
3. Product Description

3.1 Dimension

3.1.1 Shape Dimesion



3.1.2 Panel Cutting Size



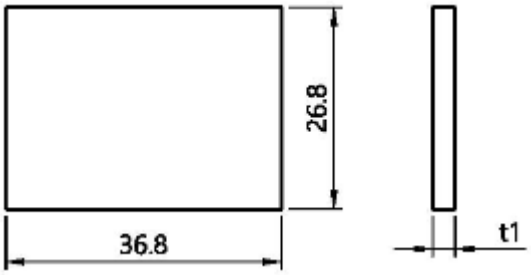
Type	Dimension								
	A	B	C	D	E	E*	F	G	H
16CH (2X8)	370	140	320	60	189	198	120	352	122
24CH (3X8)	370	170	320	90	189	198	150	352	152
32CH (4X8)	370	200	320	120	189	198	180	352	182

Notes) Lamp size : 40mm x 30mm (approx.) ex) 8CH (axb)

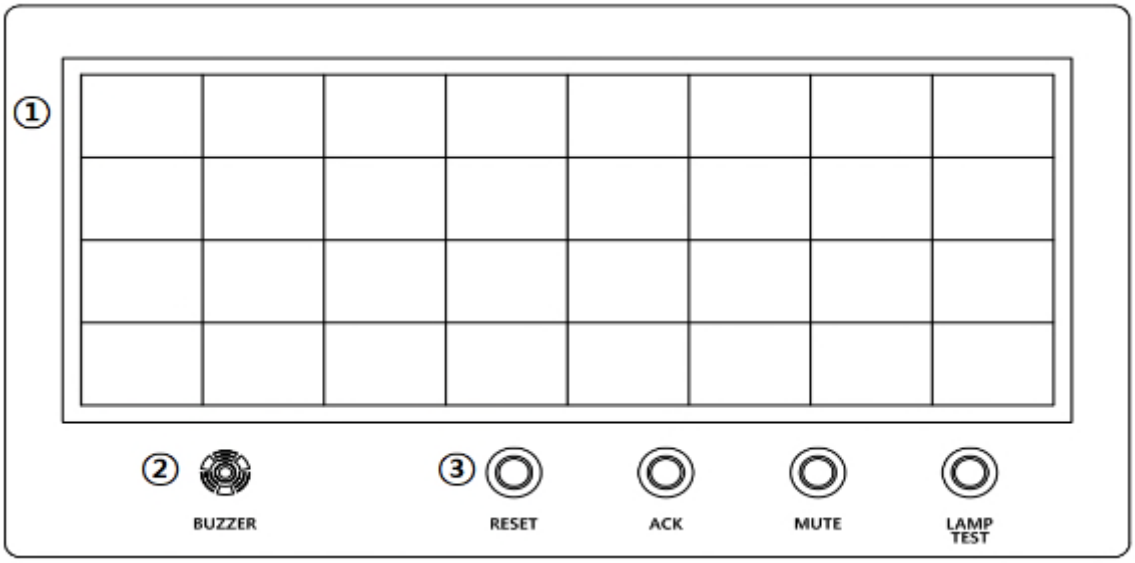
A : (bx40)+50 B : (ax30)+80 C : bx40 D : ax30 E : 189

E* : 198 F : (ax30)+60 G : A-18 H : F+2

3.1.3 Size of Marking Plate

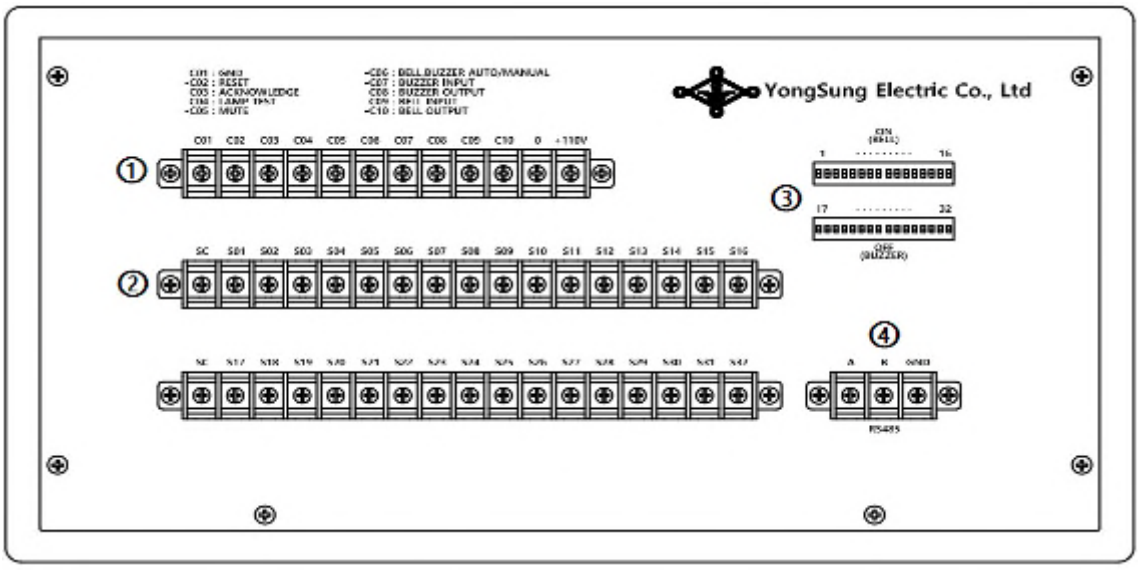


3.2 Front



No	Name	Function
①	LED Lamp	When trouble signal is got by operation for function, Indicator is lighting and flickering
②	Buzzer	When trouble signal is got by operation for function is output sound (1/2 intermittent)
③	Push Button Switch	Product control(Reset, Acknowledge, Mute, Lamp Test)

3.3 Rear



※ ④ is only for RS485 Communication type models.

① Control Terminal Block

Terminal Block No.	Function	Operation
C01	COMMON	RESET(C02), ACKNOWLEDGE(C03), LAMP TEST(C04), MUTE(C05) BELL, BUZZER AUTO/MANUAL(C06) Can be controled by Push Buttons or Rotary Switches.
C02	RESET	When the signal is input, All alarm signals are extinguished and ANS will be returned to initialization. During the operation after an abnormal signal is input, RESET function can be activated only when the functions of MUTE, ACKNOWLEDGE or BELL, BUZZER AUTO MANUAL are operated.
C03	ACKNOWLEDGE	When the signal is input during the operation after an abnormal signal is input, the lamps working under the abnormal signal will work in acknowledge situation according to the sequence.
C04	LAMP TEST	During the signal is input, all lamps will be lighting.
C05	MUTE	When the signal is input during the operation after an abnormal signal is input, the function of Front Buzzer, Contact Block for Bell(C07/C08) and Contact Block for BUZZER(C09/C10) will be OFF.
C06	BELL, BUZZER AUTO /MANUAL	When an abnormal signal is input during the signals keep being input, the function of ACKNOWLEDGE and MUTE will start working after 15 sec. (after 15 sec from the last abnormal signal)
C07	BUZZER INPUT	During the operation after an abnormal signal is input, this is the contact block will be ON if the BUZZER is selected as the switch option between BELL and BUZZER.
C08	BUZZER OUTPUT	
C09	BELL INPUT	During the operation after an abnormal signal is input, this is the contact block will be ON if the BELL is selected as the switch option between BELL and BUZZER.
C10	BELL OUTPUT	
0V	RATING VOLTAGE	Input contact block for Rating Voltage to operate the product. * : The Printing Specifications can be altered according to the rating voltage.
*24V		

② Signal Input Terminal Block

Name	Function
*SC	Field Signal Voltage INPUT COM(-) * : Various according to the channels.
S01 ~ S□□	Field Signal Voltage INPUT(+) RATING SIGNAL VOLTAGE INPUT □□ : Different according to the channels.

③ BELL, BUZZER Select Switch

Name	Function
ON (BELL)	While the Select Switches for BELL and BUZZER in chennel are selected as ON(BELL), The Contact Block(C09/C10) for BELL will be ON when an abnormal signal is input.
OFF (BUZZER)	While the Select Switches for BELL and BUZZER in chennel are selected as OFF(BUZZER), The Contact Block(C07/C08) for BUZZER will be ON when an abnormal signal is input.

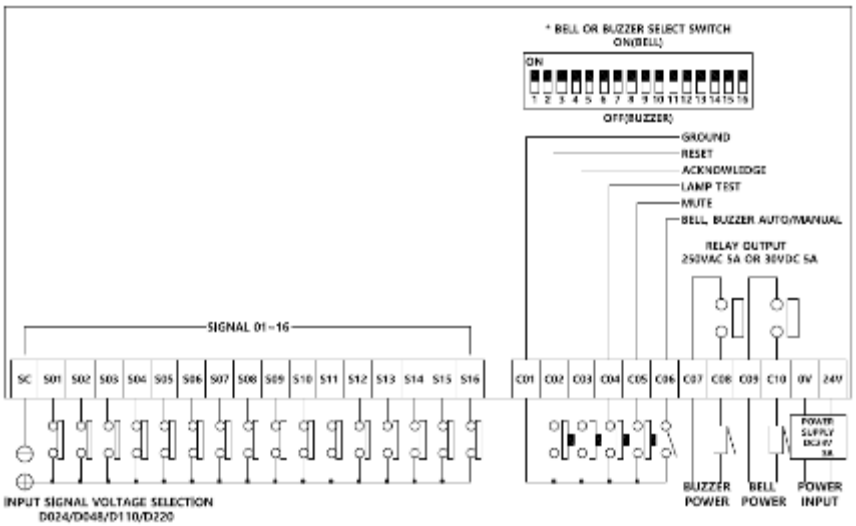
④ RS485 Communication Terminal Block

Name	Function
A	RS485 Communication cable A
B	RS485 Communication cable B
GND	RS485 Communication cable GND ※ Can be used when there is some difficulty to link communication due to high noise.

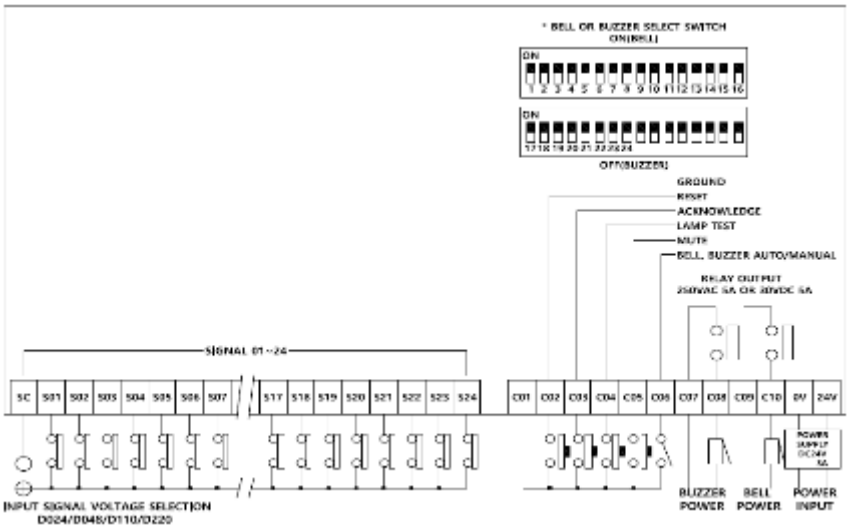
4. Connection Diagram

4.1 General Type

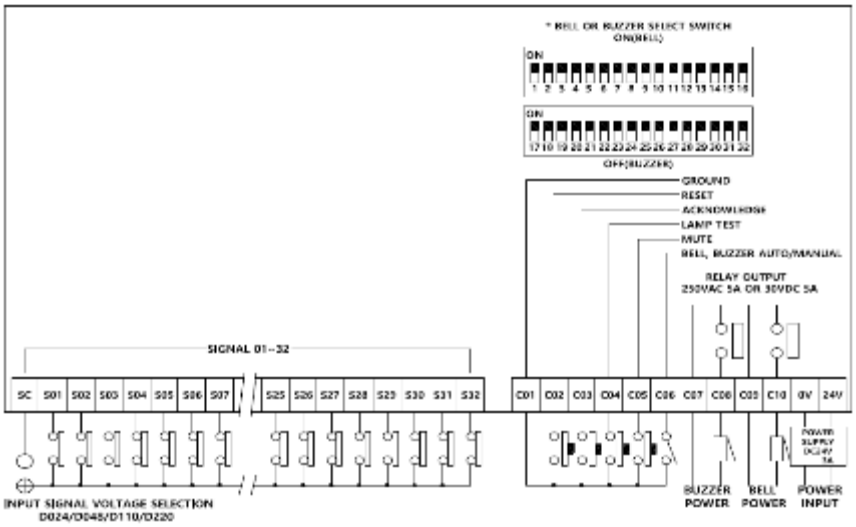
4.1.1 YS ANSB 28 Type



4.1.2 YS ANSB 38 Type

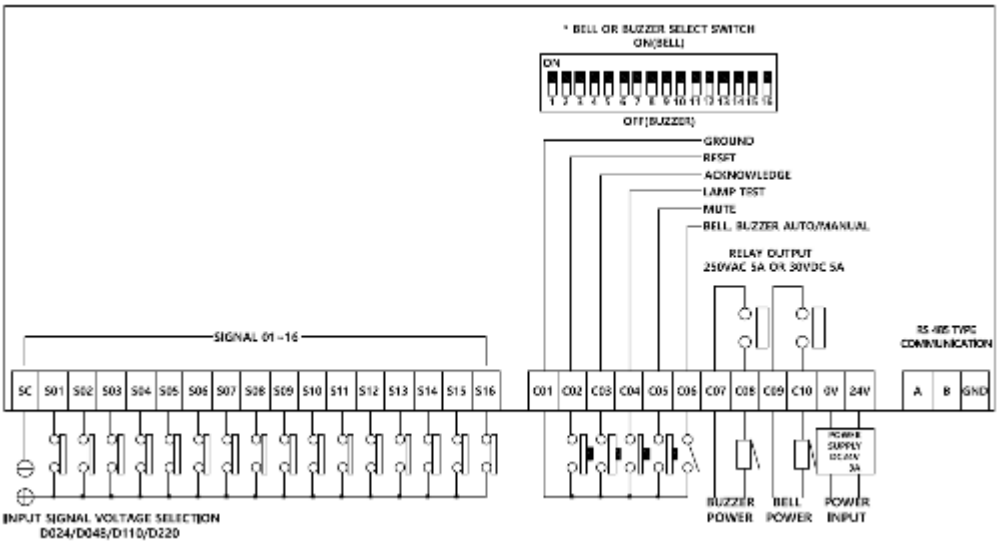


4.1.3 YS ANSB 48 Type

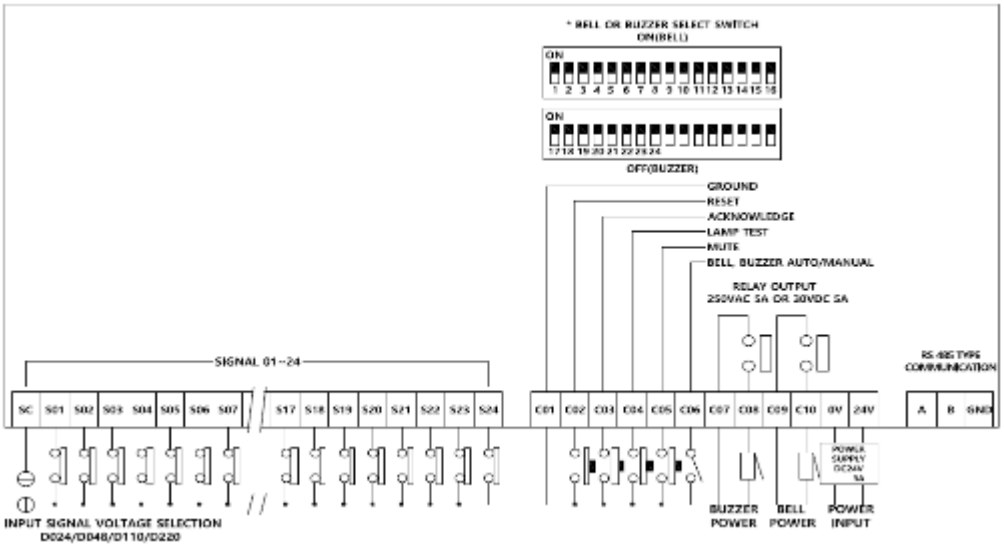


4.2 RS485 Communication Type

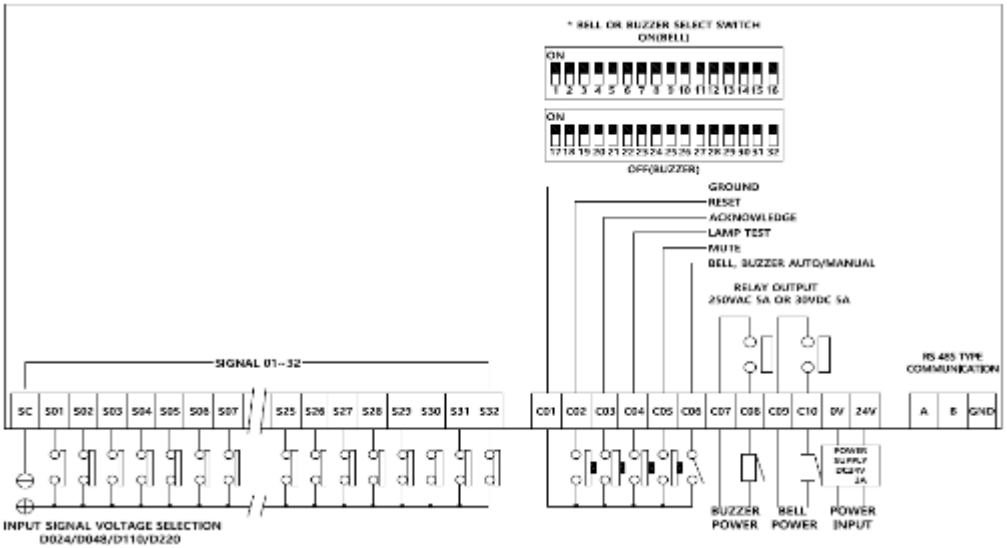
4.2.1 YS ANSB 28 Type



4.2.2 YS ANSB 38 Type



4.1.3 YS ANSB 48 Type



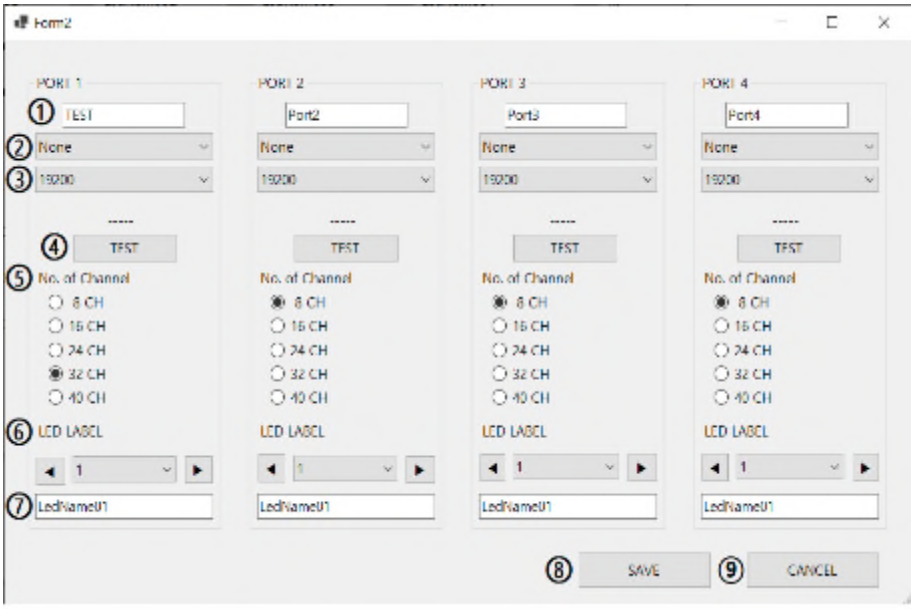
5. RS485 Communication Function

5.1 Program

1) Main Screen

No.	Function	Operation
①	Name and Status of Connection Ports.	Shows the Names and Status(Normal: Green, Deactivation:Gray, Abnormal: Red) of ANS Ports connected to PC.
②	ANS Chennel Name/Status	Shows the Names and Status(Normal: Green, Deactivation:Gray, Abnormal: Red) of each connected Chennel.
③	BELL, BUZZER Relay Statue	Shows the Status of connected BELL and BUZZER relay. (Normal : Green(contact OFF), Abnormal : Red(contactON))
④	Control Button	Buttons for Remote Control (RESET, ACKNOWLEDGE, MUTE, LAMP TEST)
⑤	Setting Button	Entering to Setting Menu to set the conditions of Communication and other values.

2) Setting Screen

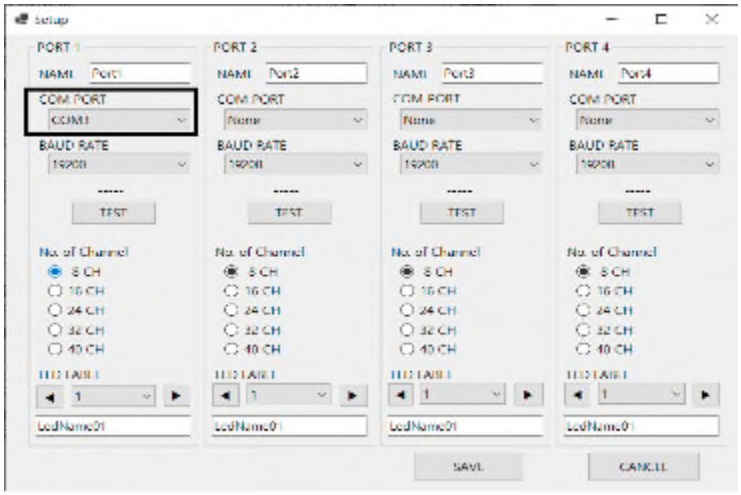


No.	Function	Operation
①	Setting Port Name	To set the names of connecting ports between PC and ANS.
②	Selecting Port	To select the connecting ports between PC and ANS.
③	Setting Communication Speed	To select the Communication Speed between PC and ANS.
④	Test Button	To test the Communication between PC and ANS.
⑤	Selecting the number of Chennels.	To select the number of Chennels for PC Monitering Program.
⑥	Selecting LED Name	Drop Box : Number selection Direction Sign : based on current number (◀ : move to previous number ▶ : move to next number)
⑦	Setting LED Name	Setting the name of selected Chennel.
⑧	Save Button	Saving setting
⑨	Cancelation Button	Canceling the changed setting and exit from current widow.

5.2 How to set the Communication between ANS ↔ PC

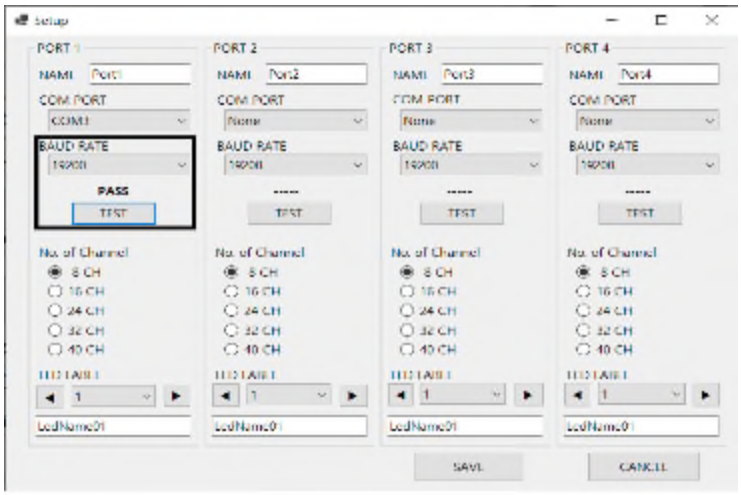
1) Connect the RS485 Communication cable between ANS ↔ PC and Power(Rating Voltage).

2) Enter to the Setup screen in the PC and Select the port which connected to RS485 Communication cable.



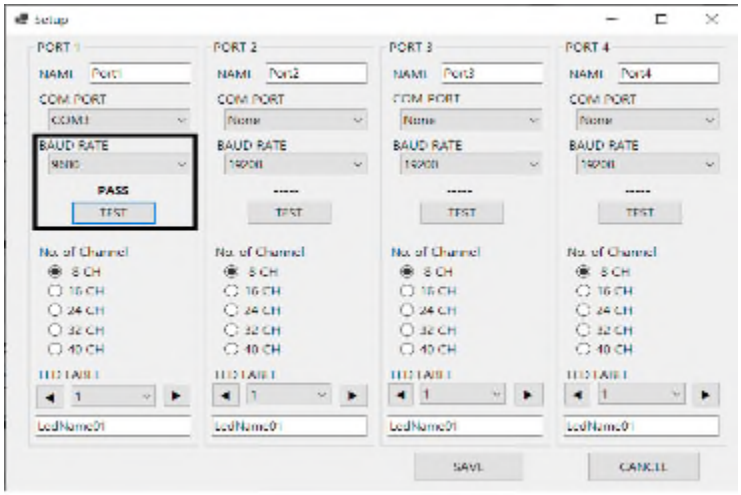
3) Test the Communication between ANS ↔ PC by pressing Test Button.

("PASS" will be show up when the test is completed)



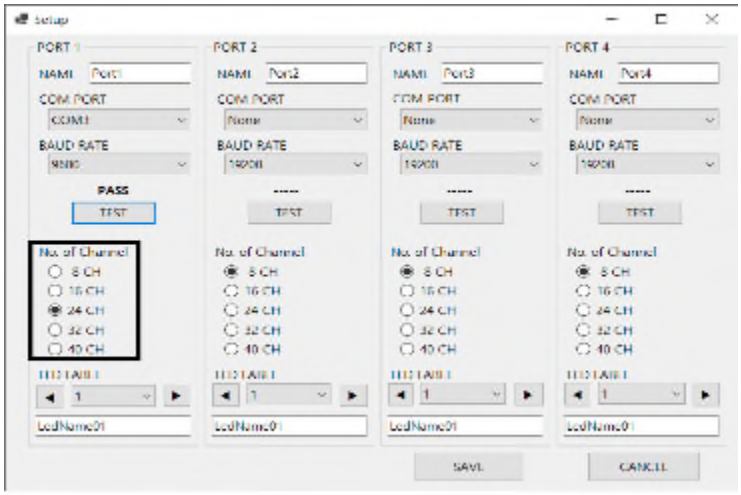
4) When it shows "FAIL", Change the speed of Communication in order from 19200 to 2400(19200 → 9600 → 4800 → 2400) and Test again.

(When "PASS" shows up at a certain speed, please use the speed. And try to do the same test several times to find an accurate communication speed)

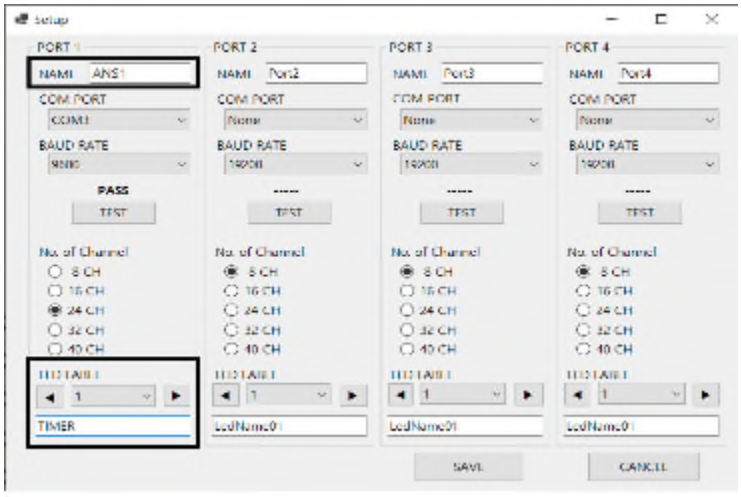


5) After completing Commucation Test, select the chennel number according to the product.

(If there is not the same chennel number to the product, please select the closest number of chennel to the product)



6) Set the name of port and the name of LED.



7) Save the setting by pressing Save Button and check if the monitoring program is working normally.