NV7616B Intelligent Alarm Controller

Operation Instruction

(English)

Precautions:

1. Installation spot

• Keep away from high temperature and pyrogen, avoid direct sunlight irradiating.

• In order to sure normal heat radiation, the machine should keep away from bad ventilation.

• In order to prevent electricity and fire, please do not put the machine in flammable spot.

• With great care placement, avoid strong impact and oscillation, do not put the machine in strong oscillatory spot.

• Avoid to move the machine in too cool or hot spot, for fear frost in the machine so that influence use life of the machine.

2. Avoid electricity and fire

• Please do not touch on-off and the machine use waterish hand.

•Please do not splash down liquid on the machine for fear short circuit or fire in the machine.

• Please do not deposit other equipment on the machine.

• Please cut electrical source when installation connection.

Important prompt

•For avoid damnification, please do not disconnect crust by yourself, must by professional maintenance man.

• Please do not use strong cleanser, use dry duster cloth clean the machine.

• Please do not use the machine when exorbitant or low voltage.

• Please read the instruction carefully so that know how to use the machine accurately. Please conserve the instruction validly after you read it. If the machine need servicing please contact local maintenance station where have

passed authorization by our company.

Environment protection

• The machine accord nation criterion of electromagnetism radiancy. It have not electromagnetism radiancy damage for body.

Declaration

• Product's issue and sale by foremost purchaser use at permission term;

• No individual or organization shall partly or entirely copy, reproduce or translate the product into other types of machine-readable electronic media without previous authorization;

• The operation instruction may be revised without previous notification;

• It is the software that shall be followed in case it doesn't corresponds with the operation instruction because of software upgrade.

Menu

Intelligent Alarm Controller

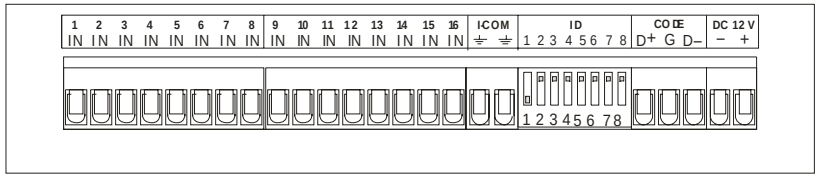
1. Equipment brief introduction

• Intelligent alarm controller is equipment of alarm information collecting and output it adopts minisize processor control. Intelligent alarm controller deal with information that from collected alarm sensor, then transmit disposal result of alarm information to controller. It can according to request startup alarm linkage on-off, camera and alarm controller. Multi- intelligent alarm controller by RS-485 mode linkage, can increase capacitance of alarm input and output. Input port of intelligent alarm controller can connect alarm sensor of open or close, output port is open relay switch.

• Note: alarm controller is not provided with burglarproof function.

2. Equipment introduction

2.1 Output cell

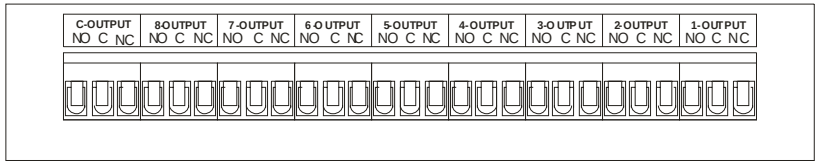


IN: alarm input signal port — I-COM: alarm input common port

ID: identification code — CODE: code of communication RS-485

DC12V: DC 12V power input — ALARM-IN:alarm input indicator light

2.2 Input cell



OUTPUT：alarm output port — NO：relay open port

NC：relay close port — C：relay common port

C-OUTPUT：alarm common output port

ALARM-OUT：alarm output indicator light

3. Equipment function

3.1 Alarm input

• Alarm controller's input loop can transform alarm input to alarm signal. Alarm have 8/16/32 channel alarm input. Each channel signal input prot if sensor can direct response open circuit and short circuit alarm. Alarm controller can response cut circuit and combination circuit alarm except detection signal.

3.2 Alarm output

• Alarm controller's alarm relay can provide relay control loop for other equipment when it alarming. Each relay can edit time of open and close. Relay can startup camera, alarm and other correlative alarm equipment. Alarm controller have 8/16/32 relay output and 1 common relay output.

3.3 Alarm disposal

• Alarm controller's alarm disposal by disposal dictate achieve so that alarm controller can response the alarm input.

3.4 Alarm repeal

• Alarm controller's alarm repeal by repeal dictate achieve so that alarm controller's output and alarm function close.

3.5 Alarm show

• Alarm controller have two indicator light, dictate relevant alarm input and alarm output.

3.6 Communication testing

• Alarm controller testing continually when it operating. indicator light show testing result.

4. Equipment setup

• Eight bit dial code of alarm controller ID, dial down is 1(ON), dial up is 0(OFF).

4.1 Dial on-off position and alarm controller ID(alarm control area):

• It can according to control area of alarm controller change 1,2,3,4 size port in ID, install ID of alarm controller so that equipment can accurate control input and outpnt port of alarm controller.

NO.	dial on-off position 1	2	3	4	alarm control area	NO.	dial on-off position 1	2	3	4	alarm control area
1	1	0	0	0	001-0016	9	1	0	0	1	129-144
2	0	1	0	0	017-032	10	0	1	0	1	145-160
3	1	1	0	0	033-048	11	1	1	0	1	161-176
4	0	0	1	0	049-064	12	0	0	1	1	177-192
5	1	0	1	0	065-080	13	1	0	1	1	193-208
6	0	1	1	0	081-096	14	0	1	1	1	209-224
7	1	1	1	0	097-112	15	1	1	1	1	225-240
8	0	0	0	1	113-128	16	0	0	0	0	241-256

4.2 Baud rate setup

• It can according to communication request of alarm controller change 1,2,3,4 size port in ID, install corresponding baud rate of alarm controller so that it have a same data transfers rate between alarm controller and control equipment.

dial on-off position 5	6	baud rate		dial on-off position 5	6	baud rate
1	0	1200		1	1	4800
0	1	2400		0	0	9600

4.3 Dial on-off position and alarm controller function

• It can according to work mode request of alarm controller change 7,8 size port in ID, install alarm controller in different work mode or testing estate.

NO.	dial on-off position 7	8	Function instruction
1	0	0	Work mode 1
2	1	0	Work mode 2
3	0	1	Work mode 3
4	1	1	Testing mode

•**Work mode 1**： not direct linkage alarm output but control alarm output by control equipment when alarm control alarming.

•**Work mode 2**：direct linkage alarm output and can close alarm output after one minute when alarm controller alarming.

• **Work mode 3**： first set up defences, alarm controller can alarm and direct linkage alarm output and can close alarm output after one minute when it have warning.

4.4 Alarm controller testing

• Setup 7,8 port to 1 (ON), alarm controller enter testing estate. according to following form setup 1-6 port position, can test port of alarm controller.

NO.	dial on-off position 1 2 3 4 5 6 7 8	Testing port	NO.	Dial on-off position 1 2 3 4 5 6 7 8	Testing port
1	1 0 0 0 0 0 1 1	1	9	1 0 0 1 0 0 1 1	9
2	0 1 0 0 0 0 1 1	2	10	0 1 0 1 0 0 1 1	10
3	1 1 0 0 0 0 1 1	3	11	1 1 0 1 0 0 1 1	11
4	0 0 1 0 0 0 1 1	4	12	0 0 1 1 0 0 1 1	12
5	1 0 1 0 0 0 1 1	5	13	1 0 1 1 0 0 1 1	13
6	0 1 1 0 0 0 1 1	6	14	0 1 1 1 0 0 1 1	14
7	1 1 1 0 0 0 1 1	7	15	1 1 1 1 0 0 1 1	15
8	0 0 0 1 0 0 1 1	8	16	0 0 0 0 0 0 1 1	16

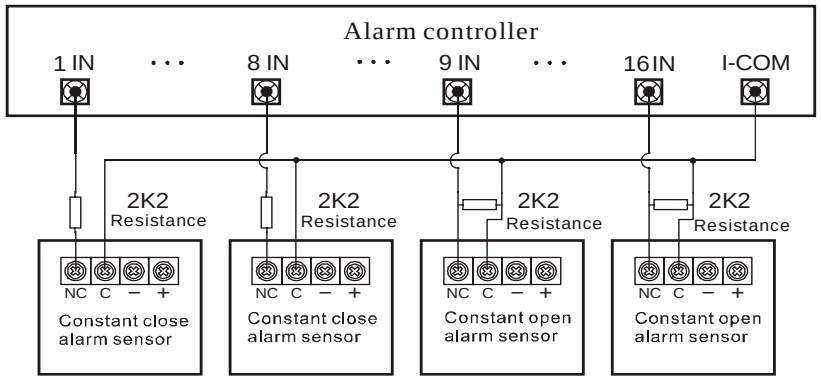
5. Technical Specifications

- **Power**： DC12V 8W(8 channel) / DC12V 12W(16 channelA) / AC220V 10W(16 channelB) /AC220V 20W(32 channel)
- **Input mode**：constant open / constant close switch
- **Alarm work estate**：constant open
- **Relay drive power**：10A/DC28V or 7A/AC220V
- **Environment Temperature**：≤90℃RH(No Coagulation)
- **Outside Dimension**：

182mm(L)×120mm(W) ×30mm(H) (8 channel)
182mm(L)×120mm(W) ×30mm(H) (16 channel A)
484mm(L)×300mm(W) ×45.5mm(H) (16 channel B)
484mm(L)×300mm(W) ×89mm(H) (32 channel)

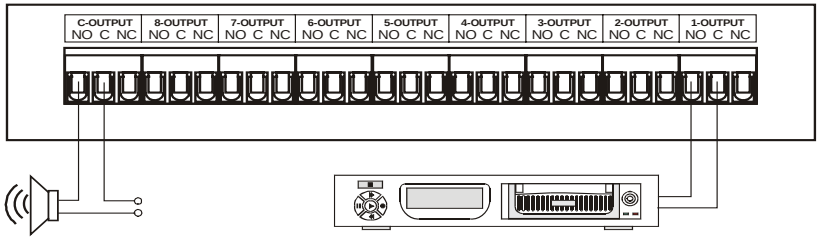
6. Equipment Connection

6.1 Alarm sensor connection



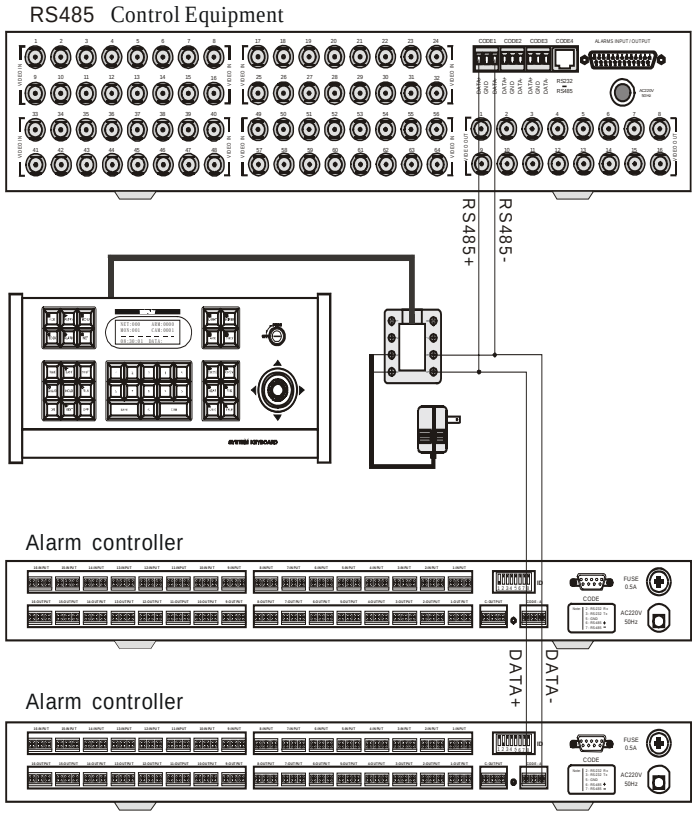
• Note : alarm controller's fittings have resistance (2K2 Ohm). Alarm controller respond alarm of short circuit and open circuit only these resistances connect alarm sensor. Alarm controller respond only one alarm of short circuit or open circuit if the resistance connect alarm junction box.

6.2 Alarm output connection



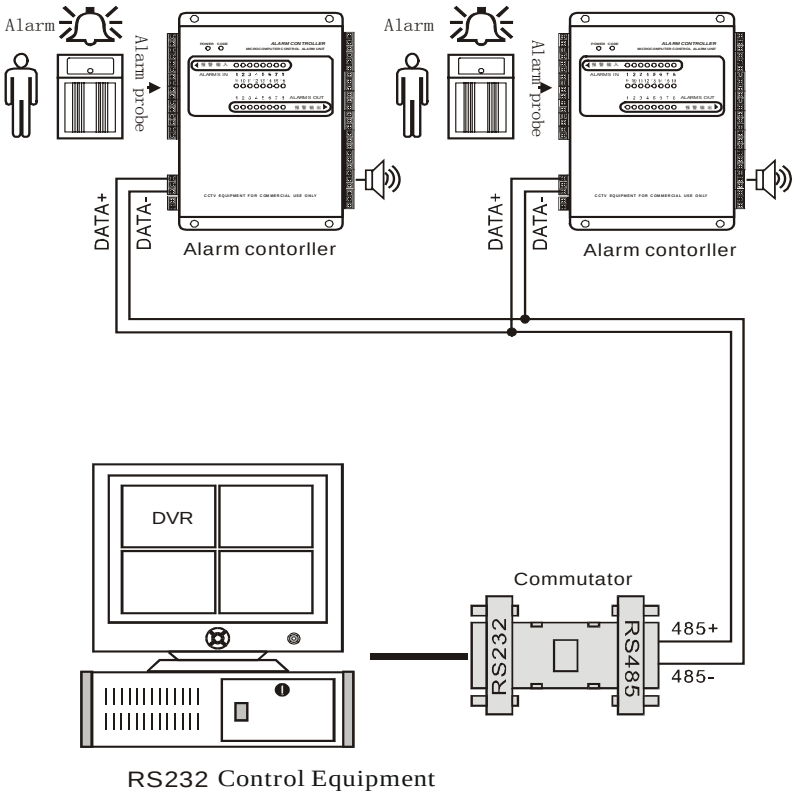
• Alarm controller equip constant open / constant close output switch, according to type of control equipment choose the output switch. Alarm controller close constant open switch and cut constant close switch. Please do not over loading when Connect load at output port of alarm controller.

6.3 Alarm controller and RS485 controller connection



• RS485 controller's RS485 port connect alarm contorller. D+(DATA+)/D-(DATA-)/G(GND) of alarm contorller's communication port corresponding connect DATA+/DATA-/GND of RS485 controller's RS485 portt. RS485 controller's communication port can connect 32 alarm controller at same time.

6.4 Alarm controller and RS232 controller connection



RS232 Control Equipment

• RS232 controller transform to RS485 controller by commutator then connect alarm controller. Digital camera connect RS232 port of commutator. D+(DATA+)/D-(DATA-)/G(GND) of alarm contorller's communication port corresponding connect 485+/485-/GND of commutator's port.