

**WS440 Voice Station Informing
Apparatus for Elevator**

USER MANUAL

Shanghai Wenshang Innovation Technology Co.,Ltd.

WS440 Voice Station Informing Apparatus for Elevator



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1.Summarization

Large-scale integrated chips, special for speech and large-capacity digital memory are applied to WS440. It can meet different needs of voice quality in different situations. Its reporting ranges up to 64-storey. It has such features as flexible interface, reliable operation and strong anti-interference. Besides station reporting, WS440 can report the running direction and broadcast background music , too. We can customize voice station informing apparatus of foreign language, broadcast propagandistic advertisement and the units, departments and operation function of each storey according to the requirements of users.

2.Product Model

WS440G□□□: General type (It can report the storey serial numbers and running directions of the elevator and broadcast the background music.)

WS440S□□□: Special type (It can customize special function according to the requirements.)

WS440C□□□: Communication type (By transportation of serial communication)

3.Technology Parameter

- 1) Working electric power: AC220V, 50HZ(include sound box)
- 2) Input signal: DC or AC(according to specific requirements of order)

4.Input signal

In order to ensure strong anti-interference, optoelectronic isolation is applied to the input lead of this station informing apparatus. Input signal can be taken from seven-section numeral tube signal, binary system coding signal or other form of storey signal , which displays storey in lift car. It can meet different needs of elevator, high level input efficiency (same cathode) or low level input efficiency (same anode), direct current signal or alternating current signal. As for seven-section numeral tube signal, the definition of input and output signal and the port of the station informing apparatus as follows:

The serial number of port	Code name	Definition	The serial number of port	Code name	Definition
1	a	the single number displaying of storey	9	up	up
2	b		10	down	down direction
3	e		11	close	door-closing signal
4	f	the decile displaying of storey	12	com	common signal port
5	g		13	stop+	change speed and stop the elevator
6	b1		14	stop-	
7	e1	the decile displaying of storey	15	220V	working power
8	g1		16	~0V	

The a, b(bl), e(el), f, g(gl) in the table above is the stroke of 7-section numeral tube signal(look at table one).If operating in other ways of coding or by transportation of serial communication , the input signal and the definition of the port of the Station Informing Apparatus will be different(Look at each wiring diagram for details).So, before installing the Station Informing Apparatus, you should make definite the type and way of storey-displaying of the elevator, then take up installing and wiring referring to our wiring diagram relevant in this manual.

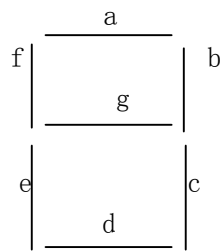


Chart 1: the stroke of 7- section numeral tube signal

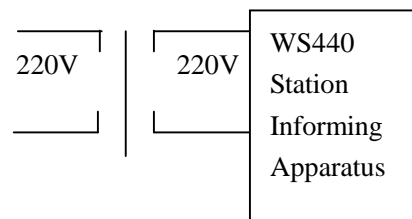


Chart 2: power input isolation

5. The directions of installation and wiring

(1)The place to install

The station informing apparatus is usually fixed on a suitable place on the top of the cage.All the signals are inputed from the signal box which is on the top of the cage.

(2) Working power

The working power of the station informing apparatus is 220v alternating current. If the working power input is seriously interfered, then we must add an isolation transformer whose electric power is 5~10VA and 1:1 between the station informing apparatus and the input power. (Look at chart 2).

(3) The approach of the connection between the station informing apparatus and the elevator.

1) The connection of the elevator which uses 7-section numeral tube signal (It has nothing to do with the connection of anode and cathode, look at chart 3)

A: The a.b.e.f.g port of the station informing apparatus should be connected with 5-section signals of 7-section numeral tube signal which displays the single number of storey. b1.c1.g1 should be connected with 3-section signals which displays the decile number of storey.

B: Stop+, stop- is the signal of changing speed (arrival). It is the triggering signal of the station informing apparatus and is usually essential to be connected. Up and down are the signals of running direction. Close is the door-closing signal. Whether these signals are to be connected depends on the requirements of users. When connected, if the station informing apparatus receives door-closing signal (close) and direction signal (up) after informing each storey, it will inform 'up'. If receives door-closing signal and direction signal 'down', it will inform 'down direction'. If the signal isn't connected, the station informing apparatus will not inform 'up' or 'down'.

C: The common port of signal is connected with the 'com' port of the station informing apparatus.

2) The connection with the elevator which uses binary system or BCD.

A: The products of Shanghai DiSeng, ShengYang FuShi and other kind of elevators which use XINGSHIDA control cabinet can refer to Chart 4.

B: Put the port 'a' of the station informing apparatus on the lowest and then put it up in turn. Setting the example of 8421, the following chart lists the corresponded connection of the range order of the port with 8421 coding signal of the station informing apparatus.

The serial number of port	Code name	Coding (8241)	The serial number of port	Code name	Coding (8241)
1	a (L1)	1	1	g (H1)	16
2	b (L2)	2	6	b1 (H2)	32
3	e (L3)	4	7	e1 (H4)	62
4	f (L4)	8		g1 (H8)	

The common port of signals above can be either the anode port of the signal electric power or the cathode one .It is all connected with the 12th bit of the com port of the station informing apparatus.

C: Other parts are regarded as empty port and needn't connecting.

3.The approach of the connection of the station informing apparatus with the elevator operating by serial communication (Look at chart 5)

A:The approach of the connection with SanLing Elevator(Look at chart 5)

1)Connect the signal of up- leveling switch to the port of the station informing apparatus of the elevator, and the down- leveling switch to the port b.

2)Arrival signal is connected to the port stop+,stop- of the station informing apparatus.

3)Add up a reset switch (or teminal reposition switch) on the leveling location of the norm level (the first level), and then connect it to the port f of the station informing apparatus, thus avoiding the misinformation which is resulted from exterior interfere.

4)The common port of signal of hatchway- leveling switch and norm reset switch is connected to the port 'com', and other empty port is not connected.

B:The connection with elevator OTIS(Look at chart 5B)

1) Connect the hatchway leveling switch signal to port 'a' of the station informing apparatus, and up signal to port b. Changing pace signal can be connected to port e or port stop+,stop-, which depends on the spot.

2) Add up a reset switch (or teminal reposition switch) on the leveling location of the norm level (the first level), and then connect it to the port f of the station informing

apparatus, thus avoiding the misinformation which is resulted from exterior interfere.

- 3) The common port of leveling , direction, changing pace and reset signal is connected to the common port 'com' of the station informing apparatus.
- 4) Other parts are regarded as empty port and needn't connecting.

(4) Other special ways of connection

As the communication port of the elevator does not reach a united standard home and abroad , and the way of storey-displaying is quite different , the station informing apparatus can' t be matched to the elevator in a united way of equipping (parts of special elevators don' t have the stand clock , thus regarding door-opening signal or break signal as arrival signal , and some other parts of elevator users ask for broadcasting voice when it closes) .If the special ways of elevator connection doesn't fit to the wiring diagram above, a special wiring diagram will be enclosed herewith for you.

(5) Adjusting the background music

If users asks for broadcasting the background music while ordering, for example , but after finishing installation and utilizing in spot , they don' t want it , they can take part the station informing apparatus and take out the electric circuit board, then jump out S1 upright on the electric circuit board.

Chart 3: 7-section port connection chart

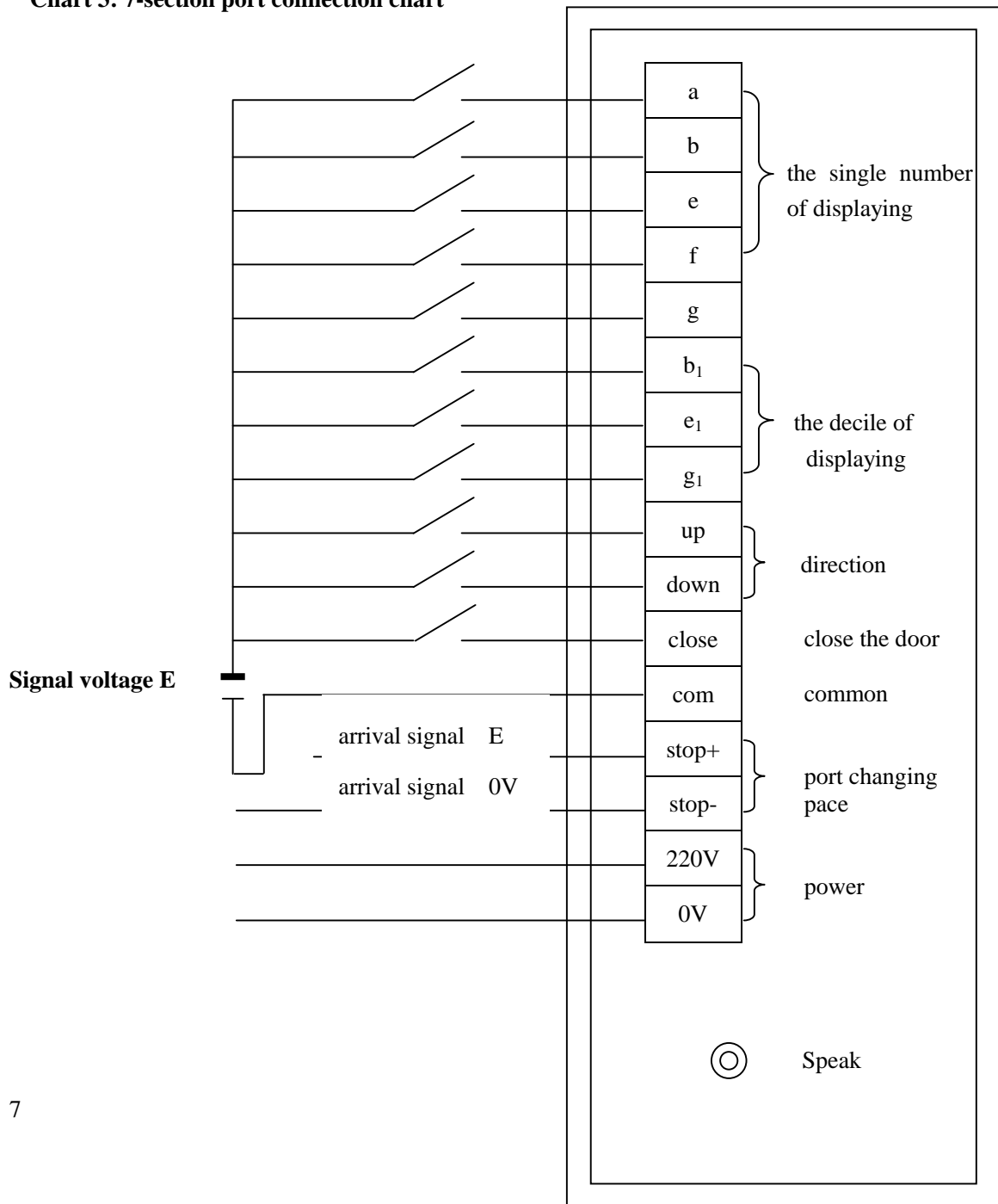


Chart 4: Binary system coding or BCD coding

Connection chart

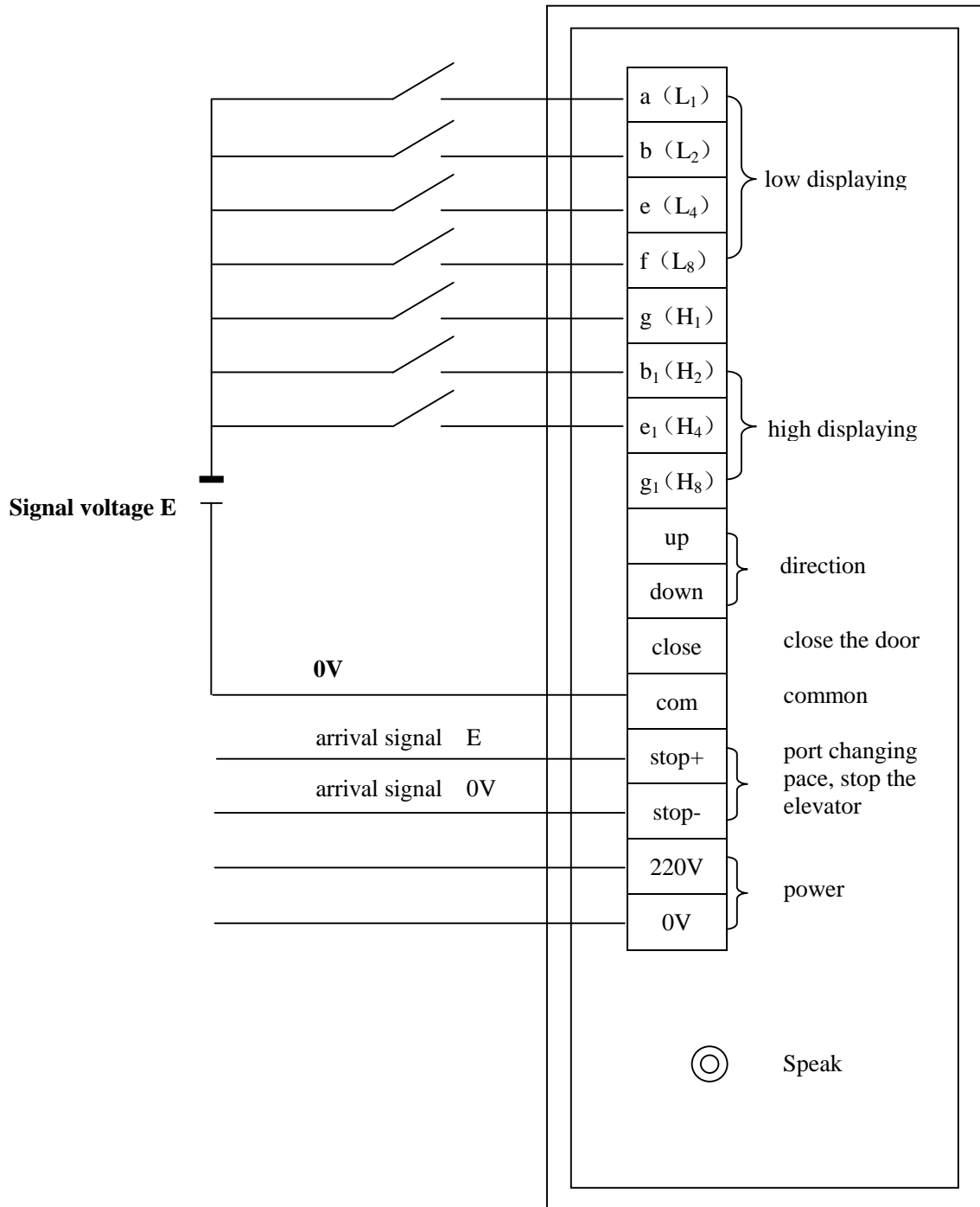


Chart4A: The connection chart of the binary system coding with STEP ELEVATOR control cabinet

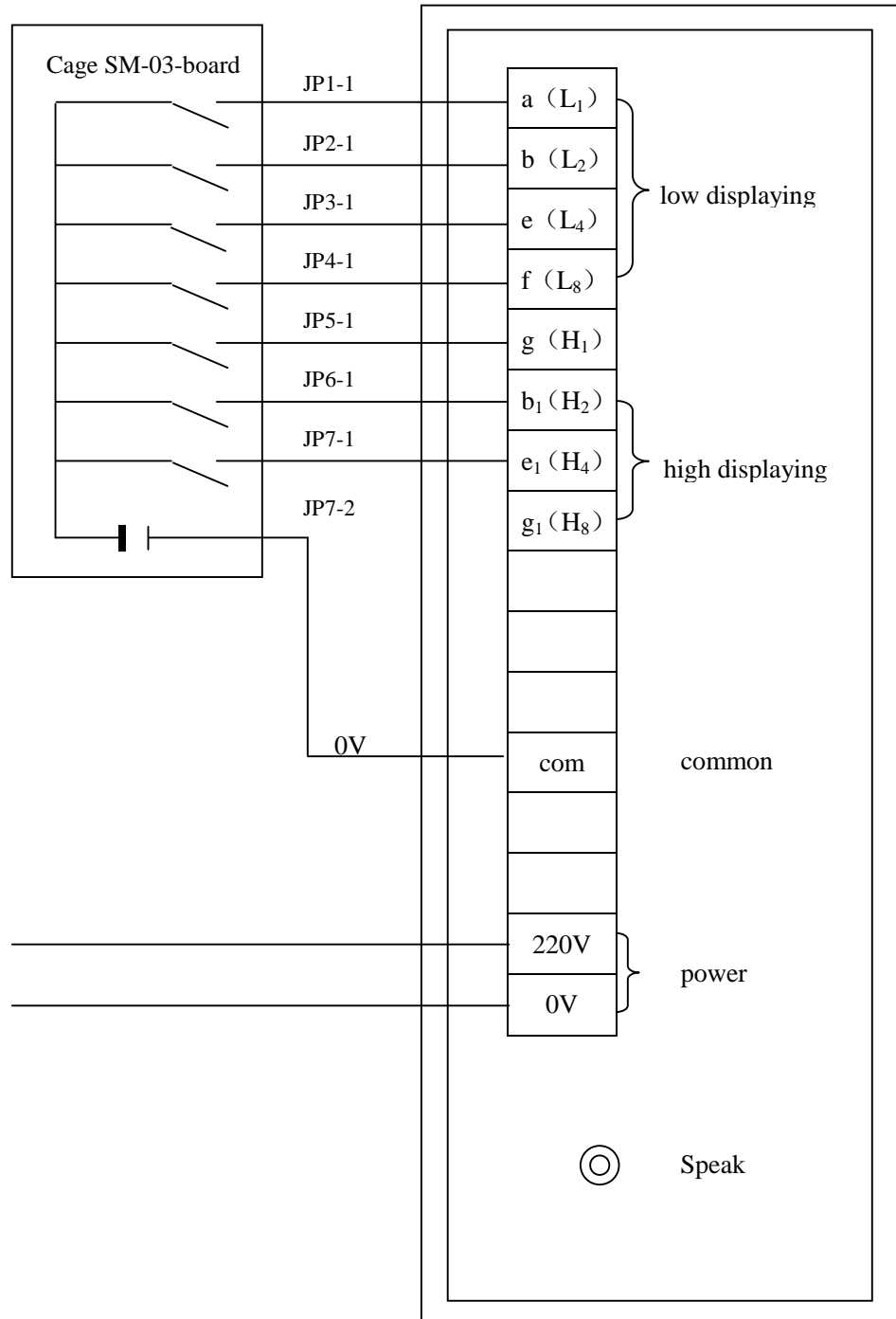


Chart 5: Connection chart of the elevator by transportation of serial communication

(MITSUBISHI Elevator and so on)

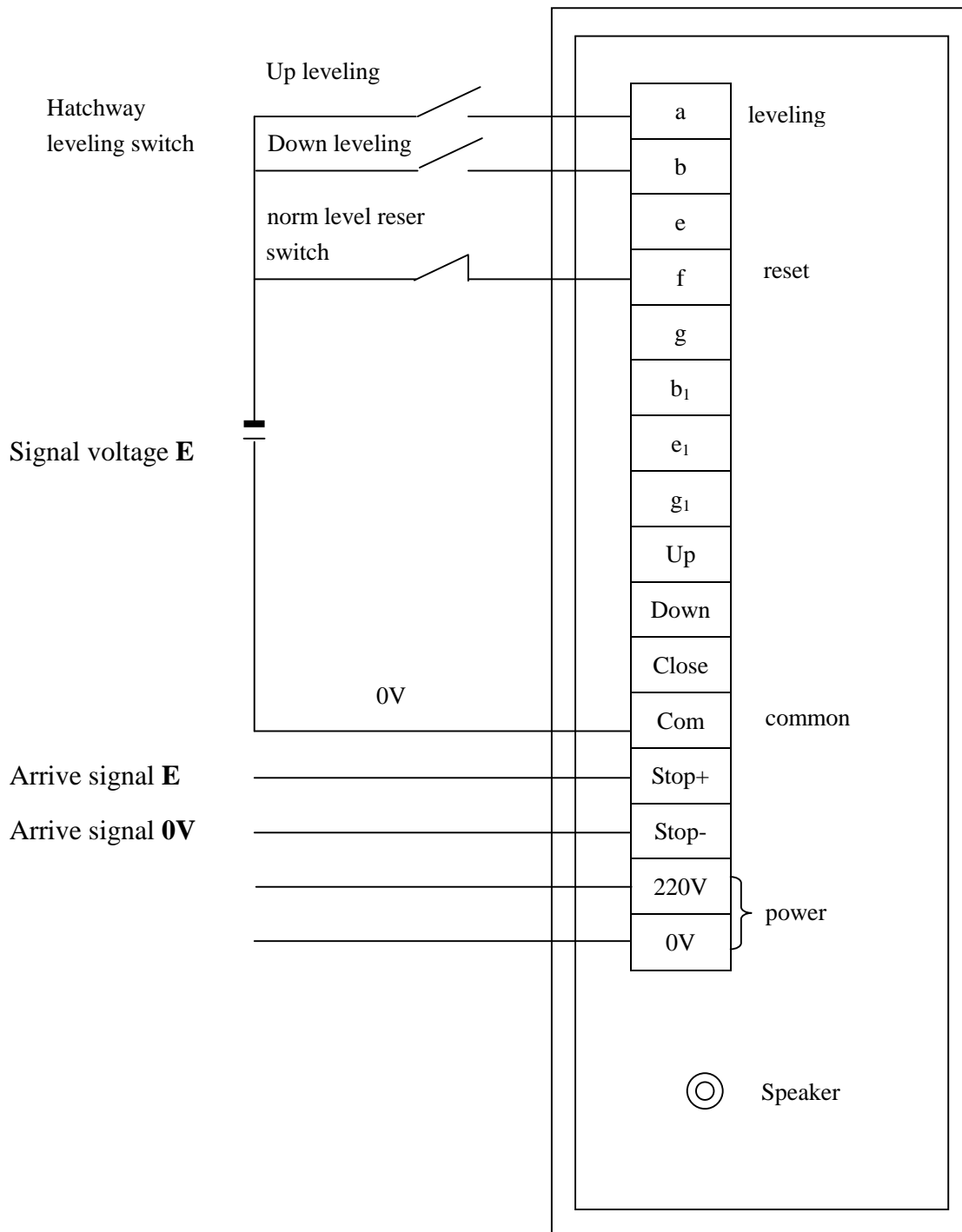
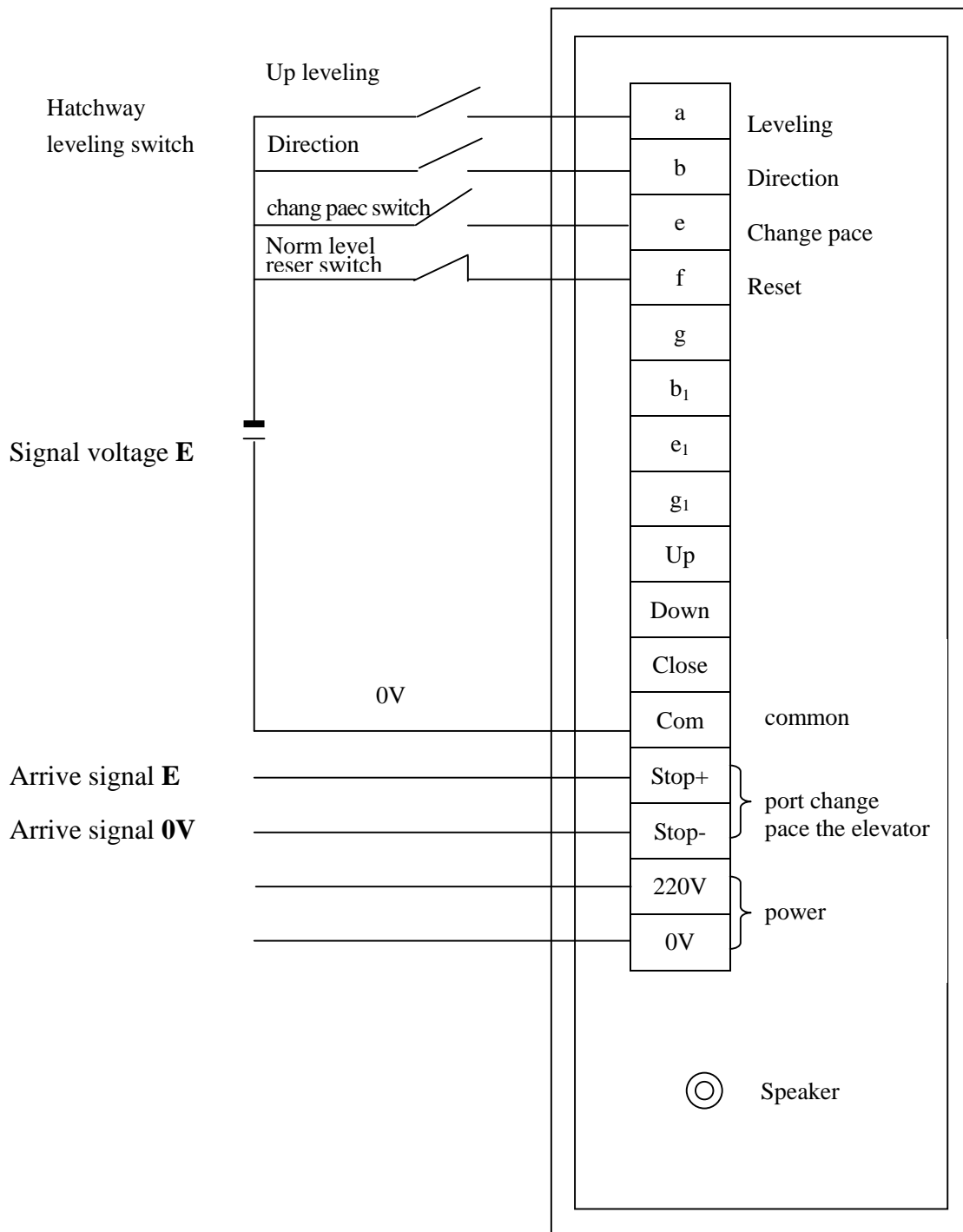


Chart5B: Connection chart of the elevator by transportation of serial communication

(OTIS Elevator and so on)



CERTIFICATE

ARTICAL Voice Station Informing Apparatus for Elevator

TYPE WS440

SERIAL NO. _____

**THIS APPARATUS HAS BEEN TESTED TO FIND TO BE IN
ACCORDANCE WITH THE TECHNICAL REQUIREMENTS.**

INSPECTOR _____

INSP. DEPT _____

DATE OF PRODUCTION _____

**THE PEOPLE'S REPUBLIC OF CHINA
SHANGHAI WENSHANG INNOVATION TECHNOLOGY CO.,LTD.**

Consumer Information Feedback Table

Article of our company		Type	WS440
Article of auxiliary elevator		Parameter	voltage: V storey:
The place of installment and employing	Province urban	Time of being employed of the article of our company	From__Year__month to__days
The situation after using the product of our company	The failure influences the elevator to function normally ,the indiction usually happens__times.	The main cause of the indiction	
Your judgements to our company`s quantity			
Your suggestions or different opinions to our company`s artical			

Please post to :

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 Shanghai Wenshang Innovation Technology CO.,LTD.
 Zip:201102
 Selling Sales:021-64802658
 Fax:54500440
 Technology Supporting:021-64802098

User Name: _____

The Association:: _____

Adress: _____

Zip: _____

Tel: _____

Fax: _____

Quality maintenance notice(Maintence Card)

Dear users:Hello.

The WS440 Voice Station Informing Apparatus for Elevator of you are putting to use ,our company make the assurement and illustration following:

1 .The Inspection standards of manufacturing and production.

The manufacturing and production of the apparatus has been tested GB7588-1995 Edition,ISO9002:1994 and so on.

2.Maintenance Date

The product's maintence date is one year from the date of production.If you can not use the product because of the quantity problem during the maintence date,our company are responsible for maintaining it out of charge.Then,please shear the notice along the line ,and post back our company including the trouble artical of the product.

3.Avoid responsibility

If the product are being breakdown because the user don't install ,adjust,put to use according to the order in the User Manual ,it is excetpt to the maintence date.The trouble except to the maintence range but during the maintence date or the requestments after the maintence date,our company will still be responsible for it.But we will change some fare refer to the material up to the condiction.

Article Type: _____ Code of Production: _____

The Place of Installment _____

Indiction of the Trouble:

User Name: _____ Association: _____

Adress: _____ Zip: _____

Tel: _____ Fax:: _____