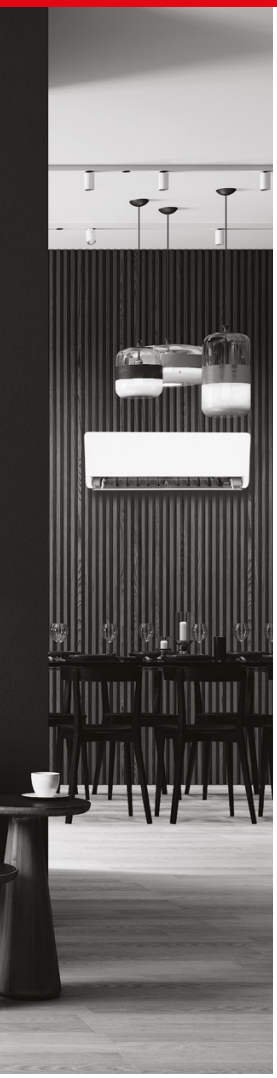
EN

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CONTROL
SERIES

DRY CONTACT



INSTALLATION MANUAL
HOTEL MENU & DRY CONTACT MANUAL

N-LINE SERIES:
Selected Models

rotenso.com

HOTEL MENU & DRY CONTACT MANUAL

Installation Manual

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PRECAUTIONS

⚠ WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Read the following if you use the device in European countries:

The device can not be operated by children under 7 years old, disabled people and people without experience and knowledge. Instructions should include a description of the correct and safe handling of the device and information about possible dangers. Children should not play with the device. Cleaning and servicing should be carried out by authorized persons.

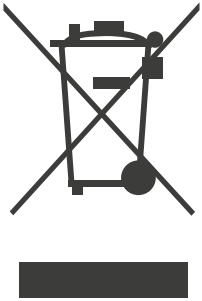
UTILIZATION:

Do not dispose of this product together with unsorted municipal waste.
It's necessary to transfer this type of waste for special processing.
It's illegal to throw the device together with other household waste.
There are several ways to get rid of this type of equipment:

A. The city organizes electronic waste collection, you can pass the device without the cost.
B. When you buy a new device the seller will accept the old device without any fees.
C. Manufacturer will take the product from buyer

A. without charging it with costs.
B. Products of this type, contains valuable elements, it can be sold sprzedane on purchase of metals.

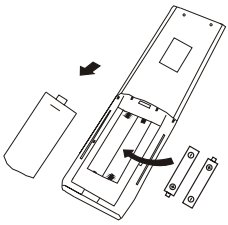
Throwing the device „on wild" exposes you to the risk of losing your health. Dangerous substances from the device can penetrate to groundwater screating a danger of getting through to people's food chain.



REMOTE CONTROL

⚠ WARNING

- Replacement of Batteries
- Remove the battery cover plate from the rear of the remote control, by sliding it in direction as the arrow.
- Install the batteries according the direction (+ and -) shown on the Remot Control.
- Reinstall the battery cover by sliding it into place.
- Use 2 pieces LRO3 AAA (1.5V) batteries.
  - Do not use rechargeable batteries.
  - Replace the old batteries with new ones of the same type whethe display is no longer legible.
  - Do not dispose batteries as unsorted municipal waste.
  - Collection of such waste separately for special treatmentis necessary.



⚠ NOTE

- Direct the remote control toward the Air conditioner.
- Check that there are no objects between the remote control and the Signal receptor in the indoor unit.
- Never leave the remote control exposed to the rays of the sun.
- Keep the remote control at a distance of at least 1m from the television or other electrical appliances

HOTEL MENU SETTING

Enter the Hotel Menu

After installing the batteries and during the first 20 seconds period, press button "⏻" to off, and hold the remote controller's buttons "FAN" and "∨" for 5 seconds to enter the Hotel Menu settings. The LCD window will display E1.

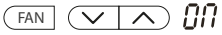
1. Auto-start function setting

In this function, "ON" or "OFF" means to enable or disable the AC auto restart function under power failure.

1.1 Press "∧" or "∨" button to choose "E1".



1.2 Press "FAN" button. Then Press "∧" or "∨" button to choose the parameters "ON" or "OFF".



1.3 Press "MODE" button to confirm the selection.



1.4 Then press "FAN" button to back the functions screen.



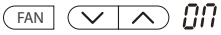
2. Swing memory function setting

In this function, "ON" or "OFF" means to enable or disable the swing louver angle memory function under power failure.

2.1 Press "∧" or "∨" button to choose "E2".



2.2 Press "FAN" button. Then Press "∧" or "∨" button to choose the parameters "ON" or "OFF".



2.3 Press "MODE" button to confirm the selection.



2.4 Then press "FAN" button to back the functions screen.



3. Cooling and heating mode

"CC" : Cooling Only ,"CH" : Cooling and Heating" and "HH" : Heating only.

3.1 Press "∧" or "∨" button to choose "E3".



HOTEL MENU SETTING

3.2 Press "FAN" button. Then Press "∧" or "∨" button to choose the parameters "CH","HH" or "CC".



3.3 Press "MODE" button to confirm the selection.



3.4 Then press "FAN" button to back the functions screen.



4. The lowest temperature setting

4.1 Press "∧" or "∨" button to choose "E4".



4.2 Press "FAN" button. Then Press "∧" or "∨" button to set the lowest temperature from 16 to 25°C



4.3 Press "MODE" button to confirm the selection.



4.4 Then press "FAN" button to back the functions screen.



5. The highest temperature setting

5.1 Press "∧" or "∨" button to choose "E5".



5.2 Press "FAN" button. Then Press "∧" or "∨" button to set the highest temperature from 26 to 31°C



5.3 Press "MODE" button to confirm the selection.



5.4 Then press "FAN" button to back the functions screen.



HOTEL MENU SETTING

6. Dry contact delay time setting (Optional)
When the Dry contact is enabled, the AC will turn off automatically in 0~6 minutes later base on this parameter, check the details in Dry contact manual.
6.1 Press "∧" or "∨" button to choose "E6".



6.2 Press "FAN" button. Then Press "∧" or "∨" button to set the time from 0 to 6 minutes (0,0.5,1, 1.5...5.5,6)



6.3 Press "MODE" button to confirm the selection.



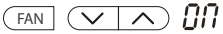
6.4 Then press "FAN" button to back the functions screen.



7. Dust filter clean reminder
In this function, "ON" or "OFF"means to enable or disable the AC dust filter clean reminder function.
7.1 Press "∧" or "∨" button to choose "E7".



7.2 Press "FAN" button. Then Press "∧" or "∨" button to choose the parameters "ON" or "OFF".



7.3 Press "MODE" button to confirm the selection.



7.4 Then press "FAN" button to back the functions screen.



8. Heating temperature compensation (Optional)
When heating, the AC will use this compensation for the indoor ambient temperature.
8.1 Press "∧" or "∨" button to choose "E8".



8.2 Press "FAN" button. Then Press "∧" or "∨" button to set the highest temperature from 6 to -6°C



HOTEL MENU SETTING

8.3 Press "MODE" button to confirm the selection.



8.4 Then press "FAN" button to back the functions screen.



9. Cooling temperature compensation (Optional)
When cooling, the AC will use this compensation for the indoor ambient temperature.
9.1 Press "∧" or "∨" button to choose "E9".



9.2 Press "FAN" button. Then Press "∧" or "∨" button to set the highest temperature from 6 to -6°C



9.3 Press "MODE" button to confirm the selection.



9.4 Then press "FAN" button to back the functions screen



10. Modbus address control address setting (Optional)
When use modbus protocal for central control, set the address of each indoor unit base on this parameters.
10.1 Press "∧" or "∨" button to choose "F1".



10.2 Press "FAN" button. Then Press "∧" or "∨" button to set the time from 00 to FF (Hexadecimal) .



10.3 Press "MODE" button to confirm the selection.



10.4 Then press "FAN" button to back the functions screen.



QUERY MODE

Press "⏻" button to turn on the AC, then hold the remote controller's buttons "FAN" and "MODE" for 5 seconds to enter the Query mode. The LCD window will display 00. Press "∧" or "∨" button to select code 00~99, then press MODE to transmit the signal.

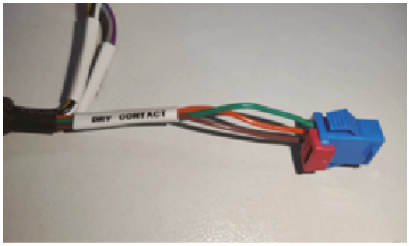
Codes	Indoor Display Indication	Rules
00	Cancel the following 01-07 display, Display setting temperature	• If the data on the indoor display is shining means minus "-" or thounds data; eg. "25" and shining means 25°C. • "A" means 10, B means 11, C means 12, D means 13, E means 14, F means 15; • Temperature: -40~159°C; eg.C8 and no shining means 128°C; • Frequency:0~159Hz: eg. B0 means 110Hz; • Fan speed: 0~2000 rpm, display data= actual data/10, round to tens place;eg. "38" and shining, means 1375~1384 rpm, "77" and no shining, means 765~774 rpm EEV datas: 0~999 display data= actual data/10, round to tens place; eg. "28" means 275~284. • Current datas: round to ones place; eg. "9" means 8.5A~9.4A; • Voltage datas: display data= actual data/10,
01	Display the indoor environment temperature	
02	Display the indoor pipe temperature	
03	Display the outdoor enverinment temperature	
04	Display the outdoor pipe temperature	
05	Display the discharge temperature	
06	Display the current(amp)	
07	Display the protection code, if there is error display "--"	
08	Reserved	
09	Reserved	
10	Cancel the following 11-18 display, Display setting temperature	
11	Display the compressor frequency	
12	Display the left indoor fan motor speed	
13	Display the outdoor fan motor speed	
14	Display the current(amp) of compressor	
15	Display the EEV data	
16	Display the AC power voltage	
17	Display the DC power voltage	
18	Display the right indoor fan motor speed	
19~78	Reserved	/
79	Auto-start	ON or OF
80	Swing memory	ON or OF
81	Cooling and heating mode	"CC" : Cooling Only ,"CH" : Cooling and Heating" , "HH" : Heating only
82	The lowest setting temperature	16~25°C
83	The highest setting temperature	26~31°C
84	Dry contact delay times	0~6min
85	Dust filter clean reminder	ON or OF
86	Modbus address	00-FF
87	Cooling temperature compensation	-2~2°C
88	Heating temperature compensation	-6~6°C

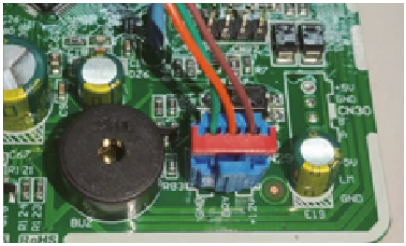
DRY CONTACT INSTRUCTION

1. Defination

1.1 Split

There is a cable marked DRY CONTACT and with a female blue connector in the end, and there is male cap protect the connector. The cable already connected to the PCB connectors CN29 (GND, DRY, +12V)



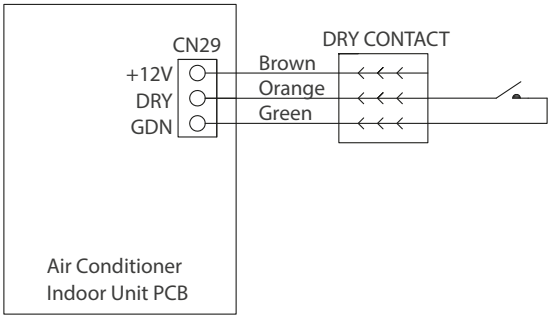


There are 3 wires.
BROWN is voltage +12VDC
ORANGE is ON/OFF input
GREEN is ground (GND)

2. TWO Modes for using the Dry contact.

2.1 Mode 1: Use only contact as dry contact.

There is a cable marked DRY CONTACT and with a female blue connector in the end, and there is male cap protect the connector. The cable already connected to the PCB connectors CN29 (GND, DRY, +12V).

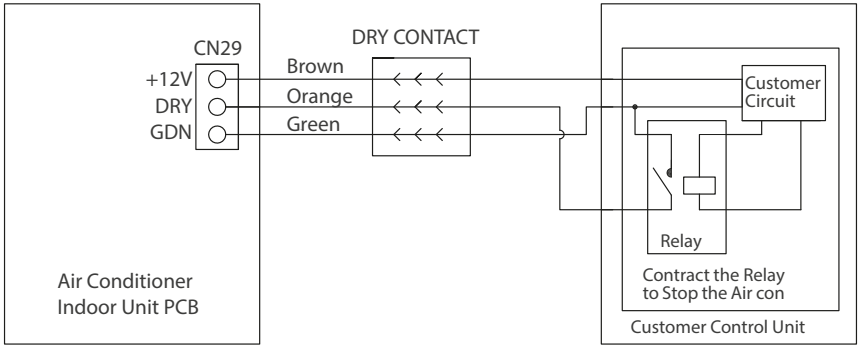


Orange or White cable is **ON/OFF** input
Green or Black cable is ground (GND)
When the Switch is "ON", it means the "OFF" singnal
When the Switch is "OFF", it means the "ON" singnal

DRY CONTACT INSTRUCTION

In this mode, when receiving OFF signal, the indoor unit will not stop directly, there is a customerized time (default 6 mins) delay to prevent start and stop frequently. The Air conditioner will get into the standby mode, when receive the singnals from the remote controller, wiring remote controller or emergy button, you will hear 2 beeps and it can't work until receive the ON signal.

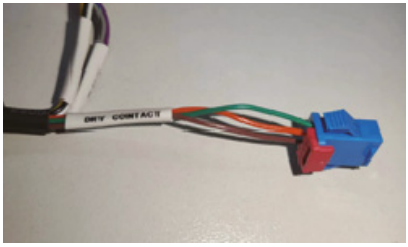
2.2 Mode 2: Use contact with 12VDC + relay



Brown or Red cable is +12V
Orange or White cable is ON/OFF input
Green or Black cable is ground (GND)
When the Relay is "ON", it means the "OFF" singnal
When the Relay is "OFF", it means the "ON" singnal

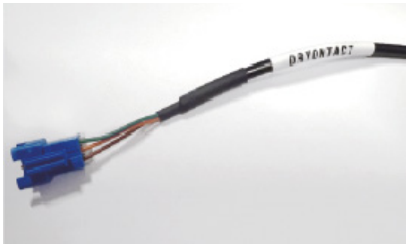
In this mode, when receiving OFF signal, the indoor unit will not stop directly, there is a there is a customerized time (default 6 mins) delay to prevent start and stop frequently. The Air conditioner will get into the standby mode, when receive the singnals from the remote controller, wiring remote controller or emergy button, you will hear 2 beeps and it can't work until receive the ON signal.

3. Installation
3.1 Cut off the power and open the front panel of indoor unit.
3.2 Use a screwdriver, open the electric box cover, and unscrew the cable clamp.
3.3 Find the cables marked DRY CONTACT (For Console and Split).

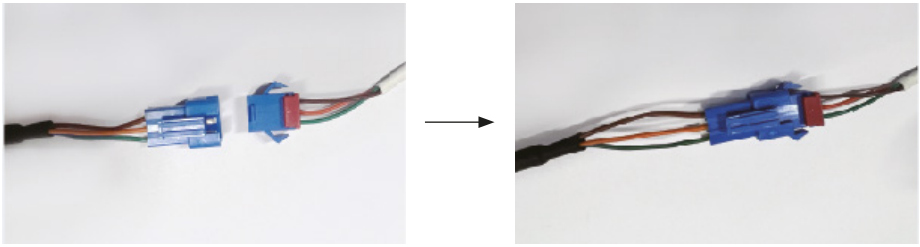


DRY CONTACT INSTRUCTION

3.4 Remove the male cap from the connector of DRY CONTACT (For Console and Split).



3.5 Take out the cable marked DRY CONTACT from the accessory bag.
3.6 Connect the cable.
Connect the cables for Console and Split



3.7 Screw the cable clamp to fasten the cables.
3.8 Reinstall the electric control box cover and front panel.
3.9 Select the Mode and follow the wiring diagram as mentioned on above item 2 to connect the wirings to end applications.
3.10 Use the remote controller and follow the "Dry contact delay time setting" to set the customerized time.

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INSTALLER STAMP

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