Limit of RoHS (RoHS的限量指標)

鎘Cadmium (Cd)	<0.01%
鉛Lead (Pb)	<0.1%
汞Mercury (Hg)	<0.1%
六價鉻Hexavalent chromium (Cr $^{6+}$)	<0.1%
多溴聯苯Polybrominated biphenyls (PBB)	<0.1%
多溴二苯醚Polybrominated biphenyls ethers (PBDE)	<0.1%

CELECT

DRF 1

RF Thermostat

CORONADO CONTROLS LTD
BOLTON BL1 2PT

www.coronadocontrols.com

Instruction Manual

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Terminal block connecting Label:
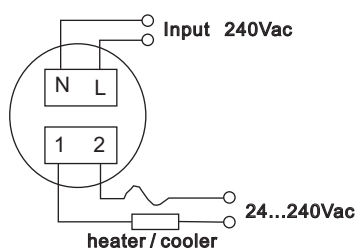
10

G.Specification:

1. Temperature measurement: 0.0 - 40°C
   (0.1°C/step)
2. Accuracy: ± 0.5°C
3. Temperature control range: 5.0 - 35°C
   (0.5°C/step)
4. Terminals: 2.5mm^2 Cable
5. Electronic Control: Type 2.B action
6. Transmitter—Battery: 2 x 1.5V AAA
   alkaline battery
7. Receiver—Input voltage: 240Vac
8. Receiver—Output voltage: 24..240Vac
   50/60Hz
   10(3)A max
9. Operating temperature: 0 - 50°C
10. Storage temperature: -10 - 60°C
11. Sensing Element: NTC thermistor

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DRF1 RF Thermostat

1. The system includes one wireless thermostat
   controller plus one RF receiver.
2. Transmits up to 20 meter indoor.
3. Communicates at 433.92MHz(USA/ Europe
   Standard) and designed for unlicensed operation
   under FCC Part 15.

Warning:

1. There may be a dead zone in the RF communication.
   That means the receiver may not be able to receive
   the message from the transmitter in somewhere.
   Before the installation, check the communication
   first. If the communication is failure, relocate the
   receiver and transmitter location.
2. If find the receiver is interfered, set another
   transmitter address. Reset the transmitter and
   follow the set up instruction to reset the receiver.
3. It is recommended locate at least 30cm distance
   from any metal objects (including the metal box)
   and at least 2 meter from any electronic devices
   e.g. radio, TV, PC etc. The metal objects or

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electronic devices maybe interfere with the RF
communication, so maximum distance will be shorter.
4. Do not mount onto metal wall boxes.

A. Installation, Mounting:

Caution:
Turn off DRF1 and the electrical devices (e.g.
heater, cooler) which will be connected before
installation. It is highly recommended that the
installation procedure is processed by trained
personnel.

1. Installation Location:

The thermostat (Receiver and Transmitter) should
be mounted on an inner wall 1.5m above the floor in
position where it is readily affected by changes of
the general room temperature with freely
circulating air. Prevent direct exposure to sunlight;
dripping or splashing area.
Do not place this unit at a location where air
circulation is low, or where it has great temperature

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2. Return the room temperature display after 10
seconds with the <🔺> icon disappears.

E. Jumper Selection:

Delay / No Delay jumper:

	Heater	Cooler
No delay	10sec	4mins
Delay	4mins	4mins

Choose the Delay option if compressor heat is
connected.

Heater/Cooler jumper:
Select the heater option when a heater is connected
to the receiver. Select the cooler option when a cooler
is connected to the receiver.

F. Address setting:

In transmitter and receiver, there are dip switches to
select the addresses. The receiver ignores the
message which is sent by the transmitter with
different address

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1. Switch ON the heater/cooler and receiver. The
heater/cooler will remain OFF until transmitter
activates the output ON with 🔥 /☼ displayed on
LCD.

C.Normal Time Mode:
1. Temperature detection starts and LCD displays the
room temperature.
2. If Battery is LOW, 🔋 will be On. The old batteries
must be replaced with new one immediately.
If Battery is LOW, 🔋 will be On. The old batteries
must be replaced with new one immediately.
3. Defrost function is activated with ❄ displayed
when temperature is 5°C or below. Output will be
forced to ON @ Heat & OFF @ Cool.
4. Below 0°C, transmitter will display *LO.*
5. Above 40°C, transmitter will display *HI*.

D.Temperature Setting Up:
1. Select the comfortable temperature by pressing
<🔺> or < 🔻> to desirable temperature.

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changes (e.g. near door). Do not place the thermostat
near heat/cool generating sources.

2.Wiring:
Caution: Turn off the electrical devices and receiver
before wiring. There are 2 wiring terminals (N, L and
1, 2) at the bottom of receiver. Connect heater /cooler
to the "1" and "2" terminals and connect 240Vac to "N"
and "L".
-Wire the correct cables to the terminal block according
to the circuit diagram which is attached inside the
thermostat top cover.
-Push all cables back into wall prior to fixing to avoid
trapping wires.
-It is recommended that a 10A fuse is fitted. (Please
refer to the wiring diagram on the last page.)

3.Mounting:
Using the accessory screws and wall anchors provided,
mount DRF1 with the key-hole at the back. The
transmitter and receiver should be mounted on the wall

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and install the covers on them.

Install or replace the battery for transmitter:

Caution: Turn off the electrical devices and
disconnect the supply to the appliances before
replacing the batteries. Replace only with the same
or equivalent type of batteries. Do not dispose the
used batteries with household waste. Refer to your
local area for the proper disposal.

1.Pull out the battery drawer
2.Place the new batteries according to the marking
on the battery drawer.
3.Dispose the old batteries properly. Slide the battery
drawer back to its position.
4.Check if the thermostat works properly or not.
Press 'RST' if necessary.

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DRF 1 Transmitter Installation

(Figure 1)
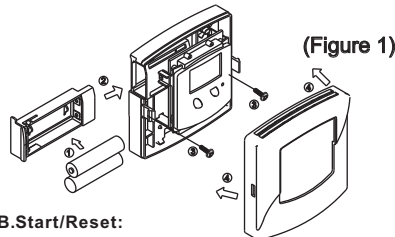
B.Start/Reset:

1. After wiring and mounting, switch off all the
connected devices. Place 2 new AAA 1.5V alkaline
batteries according to the polarities marked.
LCD display will be switched on.
2. Press 'RST' to reset. The DRF1 will be ready to
control the heater / cooler.

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