Remote Control PC-Board Set Installation Manua <KRP928B2S, KRP928BA2S>

Safety Precautions

 Read these Safety Precautions carefully to ensure correct installation. This manual classifies precautions into WARNING and CAUTION.

NARNING: Failure to follow WARNING is very likely to result in such grave consequences as death or serious injury.

CAUTION: Failure to follow CAUTION may result in serious injury or property damage, and in certain circumstances, may result in

Be sure to follow all the precautions below; they are all important for

/!\ WARNING

- Installation should be left to the dealer or another qualified professional.
 Improper installation by yourself may cause malfunction, electrical shock, or fire.
- Install the set according to the instructions given in this manual
- Be sure to use the standard attachments or the genuine parts. may cause malfunction, electrical shock, or fire.
- Disconnect power to the connected equipment before starting installation. Failure to do so may cause malfunction, electrical shock, or fire.

- CAUTION
- An earth leakage circuit breaker should be installed. If the breaker is not installed, electrical shock may occur
- Do not install the set in a location where there is danger of exposure to inflammable gas.
- Gas accumulated around the unit at the worst may cause fire.

 To prevent damage due to electrostatic discharge, touch your hand to a nearby metal object (doorknob, aluminum sash, etc.) to discharge static electricity from your body before touching this kit.
- Lay this cable separately from other power cables to avoid external electrical noises.
- After installation is complete, test the operation of the PCB set to check for problems, and explain how to use the set to the end-user.

3.Names of Parts and Electric Wiring

switch (SW1)

Upper group number switch (SW2-1to 3)

Service monitor (LED1: green)
When the CPU is working properly, the LED flashes.

Operation when recovering from a power outage mode switch (SW2-4)

Japanese unit / Overseas unit Setting switch (SW3-3)

Momentary contact / constant contact Selection switch (SW3-2)

<Wiring procedure>

Cable available field supply (See the installation manual the central remote controlle

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A cable field supply

A cable field supply

Included in the Drain Up Kit.

KRCW101A Series

Once the switches are set and the wiring complete, secure the case using the included

To HA connector (S21)

ON 1234 SWOFF

Forced stop Settings switch (SW3-1)

Power supply terminal (S8)
Connect an external DC 12V power supply only when reading the Operating / error display.

Central controller equipment

DCS302 Series

DCS301 Series

DCS601 Series

DST301 Series

Tele-con (Field supply)

Remote controller
 BRC944 Series

Card key
(Field supply)
Operating control panel
(Field supply)

Operating monit equipment (Field supply)

In case that a central remote controller is connected

In case that the device coping with HA JEM-A is connected

Connecting a Wired Remote Controller

Connecting a Momentary / constant Contact Input Equipment

Reading the Operating / error Display

00A10, and KDC101B cannot be connected.

The adapter included with the emote controller is not used.

1. Overview, Features and Compatible Models

and operations. It is compatible with room air conditioners which have an HA connector S21 Conditioner. Use of the central controller makes it possible to perform the following monitoring This kit is the interface required when connecting the central controller and a Daikin Room Air

1.Run / stop for the central controller and wired remote controller, operating mode

- Card keys, operating control panels, and other constant / instantaneous

- 6.Monitoring is not available of the thermo status, compressor operating status, indoor fan operating status, electric heater, or humidifier operating status.
 7.Forced thermo off, filter sign display and reset, fan direction and speed settings, air conditioning fee management, energy savings instructions, low-noise

2.Component Parts and Separately-Sold Parts which are Required

This kit includes the following components. Check to ensure that none of these are missing.

Parts	A.A.	Parts
Kit assy		Connection harness (about 1.6m)
PCB is in the nousing.	1	Mounting screws
Screw cover	-	Binding band
		Installation manual

Precaution 1. When reading the Operating / error signals, a separate external power source (DC 12V) is needed. 2.A separate timer power source (DC 16V) is needed when using the schedule timer independently, and not in conjunction with other central controllers. 3. The range of temperatures that can be set from the central controller is 18°C to 32°C in cooling and 14°C to 28°C in heating. 4. Fan operation cannot be selected from the central controller or wired remote controller. 5. Group control (i.e., control of multiple indoor units with a single remote controller) is not available. connection-compatible equipment can be connected. 7.The Operating / error signals can be read. 8.HA JEM-A-compatible equipment can be connected. 9.The indoor temperature can be monitored from the Ve-up controller selection, and temperature can be set. 2. The operating status, any errors, and the content of those errors can be monitored from the central controller and wired remote controller. 3. Run / stop for the central controller and wireless remote controller, operating mode selection, and the temperature setting can be limited by the central controller. 4. Zone control can be performed from the central controller. 5. The unit can remember the operating status of the air conditioner before a power outage and then start operating in the same status when the power comes back

4.Switch Settings

NOTE Turn the power on after all the switches have been set. Settings made while the power is on are invalid.

Open the Kit's case and set the switches on the circuit board.

(1) For Overseas / Japanese unit setting (SW3-3)

Room air conditioners, different methods are used for setting the temperat automatic mode, so this switch needs to be set. ure in

(2) Group number settings (SW1 and SW2-1 to SW2-3) Set these when using the central controller. (Set to the ■ side.) Do not set more than one unit to the same number. • "Automatic" operation is available from the central con

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ıtroller.

However, these settings do not need to be made when using the schedule timer

independently.

(The settings are needed when used in conjunction with another DCS Series central controller.)

In this case, the schedule timer performs an auto address after the power is turned on, so new group numbers are automatically set. Settings made using the switches will be overwritten.

1 2 3	setting group	SW2 Upp	ew group numbers are automatically set. Settings made using verwritten.
_	NO.	er	re auton
1234	setting	SW1	natically
,	group NO.	Lower	set. Se
1 2 3 4	setting	SW1	ttings m
,	group NO.	Lower	nade usi
			Ω̈́

							0 1	
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	SW2 setting
8	7—	6	5—	4—	3	2—	ī	Upper group NO.
							0 1	
1 2 3 4	1 2 3 4	2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	SW1 setting
0 7	0 6	0 5	0 4	03	0 2	0 1	0 0	Lower group NO.
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	SW1 setting
1 5	1 4	1 3	1 2	1 1	1 0	0 9	0 8	Lower group NC

NOTE also that a separate timer power source is needed when using the schedule timer independently. Power source specs: DC 16V, +10%, -15%, 200mA. Recommended power source: Omron S82J-01015A. (Should be used with the output voltage adjusted to the center, DC 16V.)

(3) Settings when recovering from a power outage (SW2-4)
This selects whether to restart operation when the power comes back on after a power outage occurred during operation. This setting is given priority in cases where the indoor unit has an auto start ON / OFF jumper. Note also that regardless of whether switch SW2-4 is on or off, the operating mode, set temperature, fan direction and speed settings, and remote control prohibition status are stored.

ON	OFF (Factory setting)	SW2-4 setting
Stops if the unit was stopped before the power outage and runs if it was running.	Stops after recovering from a power outage	What Happens

(4) Contact input function settings (SW3-1 to SW3-2) When using contact input (S1), choose one of the following functions.

				•
ន	SW3-1 SW3-2	SW3-2	What Lappan	Control mode
operating mode setting setting	setting	setting	Wildt Habbeils	Collifor
Instantaneous contact input (factory setting)	D E	OFF	OFF The operating status of the air conditioner is reversed by an instantaneous input of 100 msec or more.	Last command priority
Constant contact input	9	NO	Contact - Open to close; air condition runs. ON / OFF control is rejected Close to open; air conditioner is stopped (operate / stop / timer prohibition (NOTE 1).	ON / OFF control is rejected (operate / stop / timer prohibition) (NOTE 2).
Forced stop or remote controller permission input	O _N	Invalid	Contact - Open to close: air condition stops Durring a forced stop, all forced stop). Close to open: no change in remote controller actions operating status.	During a forced stop, all remote controller actions are prohibited.
NOTE1: Since of	5		NOTE: Cipo posto occiomost and EA IEM A competible occiomost both too	lo ocuitamont both uso

NOTE1: Since central equipment and HA JEM-A-compatible equipment both use last command priority, the contact status and operating status of the air conditioner might not match sometimes.

Example: If the unit is run from the central controller while the air conditioner is stopped with an open contact, the contact will be open and the unit will be running.

NOTE2: Operating mode and fan direction and speed settings can be changed.

KRP928B2S



Run / stop Input Contact specs No-voltage minute electric current contact (Minimum applicable load DC 12V, 1mA or lo

5.Control Codes

When using a central remote controller, the operating codes can be used to limit operation from wireless remote controllers.

o : permitted; x: prohibited

			contact mode	Constant						Instantaneous					operating mode	S		
١		\	\	\	\	remote controller	Timer operation	Last command priority	Ochidai phonty	Central priority	is accepted	Only OFF control	is rejected	ON / OFF control		Control mode		
١	9	œ	4	0,1,3,5-7	2,10-19	9	8	6,7	σı	4	12-19	2	10,11	0,1,3	code	Control		
			>	×		্	্	0	0	0	×		× × Run / timer			centra	"Run" control from the central controller	
			>	×		0	ু	0	0	0	С		×	×	Run / timer Stop Operating mode temperature		perat	
	°*	্	0	0	×	o _*	o _*	0	0	0	×		×	0			ions fi	
								0							Fan direction and fan speed	l	ΙĦ	
			;	×		×	×	0	×	×	×		×	×	Run / timer	"Stop" control from the central controller	Operations from the remote controller	
)	×		×	0	0	×	0	С)	×	×	Stop	contro	ote co	
	0	×	×	0	×	0	×	0	0	×	×		×	0	Operating mode temperaturet	oller	ontrolle	
							(0							Fan direction and fan speed	the	e e	
								0							HA JEM-A input	central controller, contact input and	Operations from	

*Only during timer operation
The remote controller permission / prohibition settings using the Ve-up controller are as follows.

: permitted; x: prohibited

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S1 pin operating mode	Ve-up	Ve-up controller settings	ettings	Operati	ons from th	Operations from the remote controller		Operations from central controller contact input and HA JEM-A input
	Start / stop	Start / stop Change operating mode	Change set temperature	Run / timer	Stop	Operating mode temperature	Fan direction and fan speed	
Instantaneous ON / OFF	ON / OFF	permitted	permitted permitted/prohibited	×	×	0		
Constant contact mode	rejected	prohibited permitted/prohibited	permitted/prohibited	×	×	×		
Inetantanaous		permi#ed	permitted	×	×	0		
contact mode		beillinen	prohibited	<	0	<		
Control is	Control is	prohibited permitted/prohibited	permitted/prohibited	>	C	>		
	accepted	permitted	permitted	×	×	0))
	3	bellillited	prohibited	<	<	<	((
CONTACTINOUS		prohibited	prohibited permitted/prohibited	>	>	>		
Instantaneous		permitted	permitted permitted/prohibited	0	0	0		
contact mode Last command		prohibited permitted/prohibited	permitted/prohibited	×	0	×		
Constant	priority	permitted	permitted permitted/prohibited	×	×	0		
contact mode		prohibited	prohibited permitted/prohibited	×	×	×		
Forced stop	Does	Does not affect settings	ettings	×	×	×	×	

6.Read Operating / Error Display Signal

The Operating / error signals can be read from the contact output (S5).

Output specs
M1: Turn MR 1 ON when the air conditioner is running.

M2: Turn MR 2 when a communication error has occurred between the KRP928B2S and the air conditioner, or MR 1 is ON and the unit has stopped after an error.

MR 2 is not turned ON during a warning.

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S5			S	Ω Ω
M ₂ M _C		0)	(
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r source splay	Operating control panel (Field supply)	· ·	A comer early for relay (CO 154)	Downer supply for roley (DC 19V)
relay specs (wint ard winz) Coli voltage: DC 12V Coli resistance: 1602 ± 10% (Matsushita Electric HC Relay, Omron MY Relay) Wiring length Max: 100m				

normality display
Relay, Omron MY Rel Wiring length Max: 100m

7.Combining Equipment

The		Cen	O _N	Sch	D-BIPS	Ford	Con	Inst	ower) HA	Wire	
The central controller can be combined with the following devices		Central Remote Controller	ON / OFF controller	Schedule timer	IPS	Forced stop contact input	Constant contact input	Instantaneous contact input	HA JEM-A-compatible equipment	Wired Remote Controller	Wirologo Domoto Controllor
binec	Central Remote Controller	0	0	0	0	0	0	0	0	0)
with	ON / OFF controller	0	0	0	0	0	0	0	0	0)
the f	Schedule timer	0	0	×	×	0	0	0	0	0	Э
ollowi	D-BIPS	0	0	×	×	0	0	0	0	0	0
ing d	Forced stop contact input	0	0	0	0	×	×	×	0	0	0
evice	Constant contact input	0	0	0	0	×	×	×	0	0	0
s.	Instantaneous contact input	0	0	0	0	×	×	×	0	0	0
	HA JEM-A-compatible equipment	0	0	0	0	0	0	0	×	0	0
	Wired Remote Controller	0	0	0	0	0	0	0	0	×	×
	Wireless Remote Controller	0	0	0	0	0	0	0	0	×	0