

EDUS721909A-T 202011

Engineering Data







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1. Control Systems

Optional Accessories of Operation Control System 1.1

No.	Item	FXFQ-TVJU	FXZQ-TAVJU	FXUQ-PVJU	FXEQ-PVJU	FXDQ-MVJU	FXSQ-TAVJU
1	Navigation Remote Controller	BRC1E73	BRC1E73	BRC1E73	BRC1E73	BRC1E73	BRC1E73
2	DKN Cloud Wi-Fi Adaptor	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA
3	Wireless Remote Controller	_	BRC082A42W BRC082A42S BRC082A41W	_	_	BRC4C82	BRC4C82
4	Remote sensor Kit	KRCS01-4B	KRCS01-4B	KRCS01-4B (Note 4)	KRCS01-4B	KRCS01-1B	KRCS01-4B
5	Installation Box for Adaptor PCB	KRP1J98A KRP1H98A (Note 2, 3)	KRP1BB101	KRP1BA97	KRP1BB101	KRP1BB101	KRP4A98
6	Central remote controller			DCS3	02C71		
7	Electrical box			KJB311A	A (Note 5)		
8	External control adaptor for outdoor unit	DTA104A62*	—		—	DTA104A53*	—
9	DIII-NET expander adaptor			DTA1	09A51		
10	Adaptor for wiring	KRP1C75*	KRC1C75*		KRP1C75*	KRP1C75*	KRP1C74*
11	Wiring adaptor for electrical appendices (2)	KRP4A74*	KRP4A74*	KRP4A74*	KRP4A74*	KRP4A74*	KRP4A71*
12	PCB adaptor for humidifier	_	—		—	_	—
13	Sensor unit (Sensor kit)	_	_	BRE49B1F (Note 4)	—	_	_
14	Adaptor for multi tenant	DTA114A61*	_	_	_	_	_
15	Madoka Wired Remote Controller	BRC1H71	BRC1H71	BRC1H71	BRC1H71	BRC1H71	BRC1H71
16	Daikin One+ Smart Thermostat	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A
17	Adaptive Touch Controller	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01
18	DKN Plus Interface	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC
19	Button Sensor Kit	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01
	Drawing No.	C: 3D086933C	C: 4D110595	C: 3D090253A	C: 3D098723	C: 3D043022H	C: 3D112077
No.	Item	FXMQ-PBVJU	FXMQ-MVJU	FXHQ-MVJU	FXAQ-PVJU	FXLQ-MVJU9	FXNQ-MVJU9
1	Navigation Remote Controller	BRC1E73	BRC1E73	BRC1E73	BRC1E73	BRC1E73	BRC1E73
2	DKN Cloud Wi-Fi Adaptor	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA	AZAI6WSCDKA
3	Wireless Remote Controller	BRC4C82	BRC4C82	BRC7E83	BRC7E818	BRC4C82	BRC4C82
4	Remote sensor Kit	KRCS01-4B	KRCS01-1B	KRCS01-1B	KRCS01-1B	KRCS01-1B	KRCS01-1B
5	Installation Box for Adaptor PCB	KRP4A96 (Note 2, 3)		KRP1C93			
6	Central remote controller		1	DCS3	02C71		
7	Electrical box			KJB311A	A (Note 5)		
8	External control adaptor for outdoor unit	DTA104A61*	DTA104A61	DTA104A62*	DTA104A61	DTA104A61	DTA104A61
9	DIII-NET expander adaptor			DTA1	09A51		•
10	Adaptor for wiring	KRP1C74*	KRP1C74	KRP1C74*		KRP1C74	KRP1C74
11	Wiring adaptor for electrical appendices (2)	KRP4A71*	KRP4A71	KRP4A72*	KRP4A71	KRP4A71	KRP4A71
12	PCB adaptor for humidifier	_		_		_	
13	Sensor unit (Sensor kit)	_	_			_	_
14	Adaptor for multi tenant	DTA114A61	_	_	DTA114A61	_	_
15	Madoka Wired Remote Controller	BRC1H71	BRC1H71	BRC1H71	BRC1H71	BRC1H71	BRC1H71
16	Daikin One+ Smart Thermostat	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A	DTST-ONE-ADA-A
17	Adaptive Touch Controller	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01
18	DKN Plus Interface	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC	AZAI6WSPDKC
19	Button Sensor Kit	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01	KRCSH2018-01
	Drawing No.	C: 3D068551B	C: 3D043022H	C: 3D043022H	C: 3D043022H	C: 3D094932	C: 3D094932

Note:

1. Adaptors with * required installation box (No.5).

Only one installation box can be installed to each indoor unit.
 The remote sensor cannot be installed when applying the Sensor unit (Sensor kit).

5. Electrical box (No. 6-1/7-1) is required for controller (No. 6/7).

^{2.} Up to two adaptors can be fixed for each installation box.

Na	ltown	FXTQ-TAVJUA		VAM-		
INO.	item	FXTQ-TAVJUD	CAIQ	300/470/600	1200	FAIVIQ-IVIEVJU
1	Navigation Remote Controller	BRC1E73	BRC1E73	BRC1E73	BRC1E73	BRC1E73
2	DKN Cloud Wi-Fi Adaptor	AZAI6WSCDKA	AZAI6WSCDKA	—	_	—
3	Wireless Remote Controller	_	BRC4C82 (Note 6)	_	_	BRC4C82
4	Remote sensor Kit	KRCS01-2UA	KRCS01-2UA	—	—	KRCS01-1B
5	Installation Box for Adaptor PCB	KRP1BB101	KRP1BB101	KRP50-2A90	_	_
6	Central remote controller	DCS302C71	DCS302C71 (Note 6)	DCS3	02C71	DCS302C71
7	Electrical box	KJB3 (Not	11AA :e 5)	_	_	KJB311AA (Note 5)
8	External control adaptor for outdoor unit	DTA104A53*	DTA104A53*	_	—	DTA104A61
9	DIII-NET expander adaptor	DTA1	09A51	_	—	DTA109A51
10	Adaptor for wiring	KRP1C75*	KRP1C75*	—	—	KRP1C74
11	Wiring adaptor for electrical appendices (2)	KRP4A74* KRP4A74*		KRP	4A72	KRP4A71
12	PCB adaptor for humidifier	—	—	KRP50-2		—
13	Sensor unit (Sensor kit)	—	—	—	_	—
14	Adaptor for multi tenant	DTA114A61*	—	—	—	—
15	Madoka Wired Remote Controller	BRC1H71	BRC1H71	BRC1H71	BRC1H71	BRC1H71
16	Daikin One+ Smart Thermostat	DTST-ONE-ADA-A	DTST-ONE-ADA-A	—	—	DTST-ONE-ADA-A
17	Adaptive Touch Controller	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01	—		BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01
18	DKN Plus Interface	AZAI6WSPDKC	AZAI6WSPDKC	_	_	AZAI6WSPDKC
19	Button Sensor Kit	KRCSH2018-01	KRCSH2018-01			KRCSH2018-01
	Drawing No.	_	_	C: 3D073395A	C: 3D073395A	C: 3D043022H

Note:

Adaptors with * required installation box (No.5).
 Up to two adaptors can be fixed for each installation box.
 Only one installation box can be installed to each indoor unit.
 The remote sensor cannot be installed when applying the Sensor unit (Sensor kit).
 Electrical box (No. 6-1/7-1) is required for controller (No. 6/7).

1.2 Individual Control Systems

Navigation Remote Controller (wired) (Optional) BRC1E73



Selectable Screen Display
3 types of displays are available; Standard, Detailed and Simple.

- Clear Display Equipped with backlight and large sized character display and buttons.
- Stylish

Basic tone is white and arrow keys are located at the center.

Simple Operation
 Simple operation used with arrow keys and menu-driven method.
 Multilingual Display

3 languages available to select: English, French and Spanish.

Convenient Features
 Schedule function and Daylight Saving Time function.

Navigation Remote Controller

Face Decal Options
 Hides unnecessary (locked/prohibited) buttons.

Used with		Single Setpoint mode		Dual Setpoint mode			
	BRC1E72RMF	BRC1E72RF	BRC1E72RM	BRC1E72RMF2	BRC1E72RF2	BRC1E72RM2	
Model	 (0) (0) (0) 	2 2 2 3 0 2 0 2 0			· · · ·	Free 0	

The Navigation Remote Controllers supports a wide range of control functions



Madoka Wired Remote Controller (wired) (optional) BRC1H71

- Sleek Stylish Design



Much like the perfection of its circular shape, the remote controller gives you perfect control over your individual climate. – Simple Interface

The remote controller combines functionality and simplicity. The minimalistic touch button control enlarges the display and makes the remote controller easy to use.

 The Madoka Quick Set APP for Installer Simplifies the advanced settings such as field settings and the controller configuration via Daikin's Bluetooth[®] furnace connectivity.

 Shorter and Easier Installation
 The application connected to this controller provides 2 modes, Owner / Administrator mode and Installer mode (no end-user mode).

Madoka Remote Controller

 Display Provides 3 selectable options for the display view: Text, Icon and Scale.

The Madoka Remote Controllers supports a wide range of control functions



Daikin One+ Smart Thermostat DTST-ONE-ADA-A

Smart thermostat offers full two-way communications with Daikin VRV systems



3

4



A number of screen savers are available, including this analog clock. The anodized aluminum bezel and dial are precision manufactured. The surfaces have a fine bead blast with a warm hued anodized finish. The dial rotation is extraordinarily smooth because it rests on a bearing assembly typically found in precision instruments. A switch behind the dial enables users to return to the home screen from any menu with a single tap.



2

Turning the dial changes the temperature set-point.

An integrated WiFi radio

connects to the internet (via a home router) to the cloud and on to the homeowner's mobile application. The Daikin cloud will also seamlessly integrate with open smart home architectures, including *Amazon Alexa* and *Google Assistant*, enabling consumers to effortlessly use features such as voice control.



A thin LED light bar sits flush within the bottom surface and runs from edge to edge, delicately illuminating the wall beneath. Emitting a soft emotive glow, the light bar indicates the current system mode: red-orange for heating, blue for cooling.



vithin the dge to edge, eneath. e light bar le: red-orange

Built-in bubble level aids professional installation.



The **home screen** displays the current temperature, the current system mode, and icons leading to each of the top level screens.



The **adjust screen** displays the current temperature on the left and set-points on the right. Change the set-points by dragging them or by turning the dial.



The **schedule screen** displays upcoming set-point changes and scheduled times. It also offers access to edit mode, where you can adjust the schedule.



5

The **away screen** displays energy saving set-points. Energy saving can be invoked manually or automatically when the mobile app recognizes everyone is away.

Adaptive Touch Controller BACRC-T-P01/ BACRC-TH-P01/ BACRC-THO-P01/ BACRC-THOC-P01

Advanced and Configurable Control Logic

The Daikin Adaptive Touch Controller (ATC) is used to control VRV, SkyAir, Single and Multi-Zone systems (P1P2) with advanced and configurable control logic. The ATC comes in 4 different models with a built-in temperature sensor, humidity sensor, CO_2 sensor, and occupancy sensor. The ATC will also provide analog input, analog output, digital input, and digital output terminals to monitor auxiliary sensors and control auxiliary equipment. The built-in sensors can be combined with advanced logic to create actionable tasks based upon the sensor values. The ATC controller can be integrated with a compatible building management system (BMS) using BACnet MS/TP.



BACRC-T-P01 BACRC-TH-P01

Indoor Unit	Models
BACRC-T-P01	ATC with Temperature Sensor
BACRC-TH-P01	ATC with Temperature/Humidity Sensor
BACRC-THO-P01	ATC with Temperature/Humidity/Occupancy Sensor
BACRC-THOC-P01	<i>ATC</i> with Temperature/Humidity/Occupancy/CO ₂ Sensor



BACRC-THO-P01 BACRC-THOC-P01



System Overview

DKN Plus Interface AZAI6WSPDKC

Energy-Efficient Control

The DKN Plus Interface (AZAI6WSPDKC) enables the energy-efficient control of Daikin air conditioners by a third-party thermostat or an automation system. With this interface third-party devices or systems can control the *VRV*, SkyAir, Single-Zone and Multi-Zone indoor unit through Cloud API, Modbus, BACnet MS/TP, or thermostat relay contacts. This interface can be commissioned easily through the DKN Cloud NA app via Daikin's Bluetooth furnace Low Energy (BLE).



System Diagram

Integration with 3rd party thermostat

» The adaptor provides 4 different approaches for a 3rd party thermostat to control the Daikin indoor units



Integration with Building Management System (BMS) or Home Automation System (HAS)

» Integration through Modbus or BACnet MS/TP



» Integration through Cloud API



DKN Cloud Wi-Fi Adaptor AZAI6WSCDKA

Connect your Daikin system with the DKN Cloud Wi-Fi adaptor

The DKN Cloud Wi-Fi Adaptor for *VRV* (P1P2) enables the remote control of your Daikin indoor units through an iOS/Android App. With the app, the DKN Cloud Wi-Fi Adaptor provides remote control and monitoring of P1P2 indoor units' ON/OFF, mode, set-point, fan speed, louver position, room temperature, and error alert status from an iOS/Android smartphone. Voice control is also possible through Google Assistant and Amazon Alexa.

System Overview

The adaptor can be connected to the indoor unit as a standalone controller. It can also be connected to the indoor units as a main or sub remote controller if used with a wired remote controller. When connected to a Daikin indoor unit, the adaptor can monitor and control up to 16 indoor units together on the same P1P2 communication bus.

The DKN Cloud Wi-Fi Adaptor has the capabilities to connect to a building management system (BMS) or home automation system via the wired Modbus connection. The adaptor also has the ability to connect to a 3rd party controls system via the an Cloud API Integration.







App Features

	All unite m	
	All Units (3)	
^	Floor 1 (2)	0 🕕
-	Living Room	0
	[[]/49 - 25/14	
-	0 74% % 73%	0 🕕
	Eloor 2 m	00
	10012(1)	
E.	Bedroom	0

Indoor unit control and monitoring. Unlimited indoor units can be added to one account. Control indoor units as a group.



Control and monitor indoor unit's ON/OFF, mode, set-point, fan speed, louver position, room temperature, and error status.

=	Manag	e User	
Office			+
John Do john@ema	e il.com	Basic	>
Jane Do Jane@ema	ie il.com	Advanced	>
You can o advanced	nly manage use proups	ers in your	
Advanced	and Basic feat	ures >	

Leveled user authority options: Basic/Advanced

-	5	cnedul	es		
Su M	to Tu	We	Th	Fr	Sa
Office					+
Re	ception				V
12 AM	06 av	12 PM	05	ям	12 au
7:30 лм	Arrival ON 5	k 77≪			
5:30 am	Depart OFF	ture			
of	fice				^
00	06 AV	1003	05	PM	12
Floor 2					+
🔄 Be	droom				~
00	06 ANI	noon	05	ы	12
3:00 рм	ON (à) 77-r	5		

7 Days Schedule

Wireless Remote Controller (Optional) BRC4C/BRC7E Type



Wireless Remote Controller



- ON/OFF operation

- Temperature setting
- Change of operation mode
- Airflow setting
- A compact light receiving unit to be mounted into a wall or ceiling is included.
 - A light receiving unit for ceiling-suspended type and wall-mounted type is mounted into the indoor unit.

1.3 Centralized Control System

intelligent Touch Manager

The intelligent Touch Manager (iTM) is an advanced multi-zone controller that controls and monitors the Daikin *VRV* system. The iTM can also provide a cost-effective mini Building Management System (BMS) solution to integrate and control third-party devices through optional software and hardware. If a BMS already exists, the iTM can be used as a BACnet gateway interface for BMS integration with iTM BACnet Server Gateway Option.

Easy Operation and Configuration

- Intuitive user interface with 10.4" LCD touch screen
- Flexible screen views includes the icon view, list view and layout view for system configurations
- Easy engineering with use of the Preset Tool and USB port

Advanced Control Logic

- Independent Cool and Heat setpoints or Single setpoint in the occupied period
- Independent Setback setpoints in the unoccupied period
- Weekly Schedule with Optimum Start and Timed Override
- Auto Changeover with configurable methods

Facility Management and Billing

- Remote Web access
- Automatic Error and Alert emails
- Tenant Billing with the iTM PPD option

Mini BMS Solution with Software and Hardware Options

- Interlock and Emergency Stop for facility management
- DI, DO, AI, AO points integrated via the WAGO I/O System
- BACnet points (AI, AO, AV. BI, BO. BV, MSI, MSO, MSV) integrated with the iTM BACnet Client Option
- DI and DO points integration via DIII-Net connected DI and DIO units

Built-in Service Tool with Remote Access

- Operation data are stored in the iTM for the last 5 days:
 - Indoor unit and outdoor unit operation data
 - BACnet Client objects
 - WAGO I/O system data
- Operation data can be exported through a USB drive or through the iTM web browser remotely
- BMS can monitor the BACnet objects of indoor unit and outdoor unit operation data with the BACnet Server Gateway Option activated

BACnet Server Gateway Option

- Direct connection to the VRV system using the iTM as a gateway
- Individual device ID assigned to each indoor unit group and outdoor unit
- Seamless control logic integration between the iTM and BMS
- Greatly reduces the need for BMS integrator programming

BACnet Client Option

- Monitor and control equipment and sensors connected to a BACnet server via BACnet IP
- Up to 50 BACnet IP servers can be connected

PPD Option

Apportions total outdoor unit power consumption back into the respective indoor units served by those outdoor units



1.4 Group, Management Point and Area

1.4.1 Definition

Remote controller group

- The group means the indoor units connected by the same control wiring for remote controller (connected to terminal P1 and P2) and all the units in the group have "the same setting" and "the same operation".
- The indoor units in the group are controlled by the local remote controller connected to the indoor unit(s).
- Up to 16 indoor units can be placed in one group.

Management point

A management point is the target equipment monitored and operated using the iTM.

A remote controller group is a management point in the iTM.

The types of management points that can be controlled by iTM are as follows:

Indoor*1, Ventilator, Dio*2, Analog*3, Pulse*4, Outdoor, MultiState*5

- *1 The management points indoor unit and AHU are treated as the indoor management point type.
- *2 The management points Di, D3Dio, D3Dio, External Di, External Dio, BACnet Di, and BACnet Dio are treated as the Dio management point type.
- *3 The management points External Ai, External Ao, Internal Ai, BACnet Ai, and BACnet Ao are treated as the Analog management point type.
- *4 The management points Pi, External Pi, and Internal Pi are treated as the Pi management point type.
- *5 The management points BACnet Mi and BACnet Mo are treated as the MultiState management point type.

Area

Area is used in the iTM instead of Zone.

An area is a hierarchical group into which management points, monitored and operated by the iTM, are classified. You can populate an area with member areas and management points. An All area, to which you cannot manually register or delete members from, is provided by default.

- The indoor units connected by the same control wiring for centralized control equipment (connected to terminal F1 and F2) and all the units in the same Area can have "the same setting" or "independent settings".
- The Area control of the indoor unit is operated by the centralized control equipment.
- From 1 up to 64 Areas can be controlled by the centralized control equipment.
- The number of groups you can set in one Area is from 1 up to 64 indoor unit groups.
- Up to 16 indoor units can be set in one group, and up to 64 indoor unit groups (up to 128 indoor units) can be connected.

Centralized control equipment is capable of controlling/monitoring up to 512 groups of indoor units (hereafter "groups") with use of up to 7 iTM Plus Adaptors.

The main functions of the centralized control equipment include :

- 1. Collective starting/stopping of operation of the indoor units connected to the centralized control equipment.
- 2. Starting/stopping of operation, temperature setting, switching between temperature control modes and enabling/disabling of operation with the local remote control by <u>Area</u> or <u>group</u>.
- 3. Scheduling by Area or group.
- 4. Monitoring of the operation status by Area or group.
- 5. Display of the air-conditioner operation history.
- 6. Forced stop input from BMS (non-voltage, normally-open contact).

Maximum number of areas that can be created: 650 (All excluded)



Maximum number of hierarchal levels that can be created: 10 levels

Note:

Registered management points are automatically registered in the folder for the corresponding management point type set up under the all area (default).

1.4.2 Patterns of Group and Area

Group

- A group of indoor units include:
- 1. One indoor unit without a remote controller.



2. One indoor unit controlled with one or two remote controllers.



3. Up to 16 indoor units controlled with one or two remote controllers.



Area

- Area control with the centralized control equipment
- Area control, which allows collective settings for more than one group, is available with the centralized control equipment, which facilitates the setting operations.



- One setting can make the same setting for all of the units in one area.
- Up to 512 Areas can be set with one centralized control equipment. (The maximum number of groups in one area is 512.)
- Groups can be placed in areas at will with the centralized control equipment.
- Indoor units in one group can be divided into more than one area. (not recommended)
- 1 Area is not limited to 1 Group and vice versa.

You can register a management point in two or more areas. However, you cannot register the same management point two or more times in one area. You cannot register the same area in two or more areas either.



1.4.3 Group Address

- Set a group address to a device to be connected to the DIII-NET.
- The range of addresses to be set is 64 types as shown below.

1-00~1-15	·····16 types	
2-00~2-15	·····16 types	Tabal C4 to mag
3-00~3-15	·····16 types	Iotal 64 types
4-00~4-15	·····16 types	

- You cannot set a same group address on a same DIII-NET.
- You do not need to set a group address to a sub unit in a remote control group. -In case of power proportional distribution is used, you need to set a group address to a sub unit in a remote control group as well.





1.5 Building Management System

	Part name		Model No.	Function	
t System	Basic	Hardware	intelligent Touch Manager	DCM601A71	Air-conditioning management system that can be controlled by touch screen.
Managemen		Hardware	iTM plus adaptor	DCM601A72	 Additional 64 groups (10 outdoor units) are possible. Max. 7 iTM plus adaptors can be connected to intelligent Touch Manager.
Building	Option	Software	iTM power proportional distribution	DCM002A71	Power consumption of indoor units are calculated based on operation status of the indoor unit and outdoor unit power consumption measured by kWh metre.
	External I Control	Equipment	iTM BACnet Client Option	DCM009A51	 With this option, the iTM is able to manage DOAS systems and other third party equipment through the BACnet/IP protocol. By registering equipment connected to a BACnet server as management points in the iTM, you can now monitor and control the equipment via the iTM.
ation Line	Interface Solutions BACr Serve		iTM BACnet Server	DCM014A51	With the iTM BACnet Server Gateway Option (DCM014A51), the iTM provides BMS integrators with the ability to monitor and/or control the VRV indoor and outdoor units, eliminating the need for an additional hardware interface. Moreover, with the latest software update to the iTM 2+ (v2.06), the iTM is able to serve as a service tool to access indoor and outdoor unit operation data. With the iTM BACnet Server Gateway Option, the operation data points for both the IDU (indoor unit) and ODU (outdoor unit) are also available to the BMS through BACnet.
unmu	Interface for use in BACnet (Note 1)		DMS502B71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through BACnet communications.	
Ö	Optional DIII board			DAM411A1	Expansion kit, installed on DMS502B71, to provide 3 more DIII-NET communication ports. Not usable independently.
	Interface for use in LONWORKS (Note 2)		DMS504C71	Interface unit to allow communications between VRV and BMS. Operation and monitoring of air-conditioning systems through LONWORKS communication.	
	Home au adaptor fo	Home automation interface		DTA116A51	Use of the Modbus protocol enables the connection of the VRV system with a variety of home automation systems from other manufacturers.
	Mounting	plate		BKS26A	When installing DTA116A51, DTA109A51 into outdoor units.
ntegration	DKN Plus Interface		AZAI6WSPDKC	Enables the energy-efficient control of VRV indoor unit by a third-party thermostat or an automation system. With this interface, third-party devices or systems can control VRV indoor unit through Cloud API, Modbus, BACnet MS/ TP, or thermostat relay contacts.	
ontroller Ir	DKN Cloud Wi-Fi Adaptor		AZAI6WSCDKA	Enables the energy-efficient control of VRV indoor unit by DKN NA smartphone app and/or voice control command. With this adaptor, third-party devices or systems can control VRV indoor unit through Cloud API, or Modbus.	
Remote C	Adaptive Touch Controller		BACRC-T-P01 BACRC-TH-P01 BACRC-THO-P01 BACRC-THOC-P01 BACRC-THOC-P01		Built-in sensors and logic for VRV indoor unit control. It also enables the monitoring and control of the VRV indoor unit through BACnet MS/TP.
lal	Unificatio computer	n adaptor fo ized control	r	DCS302A72	Interface between the central monitoring board and central control units (not compatible with the iTM).
og sigr	Wiring ad appendic	laptor for ele es	ectrical	KRP4A71, 72, 73, 74	To control the group of indoor units collectively, which are connected by the transmission wiring of remote controller.
act/Analo	External o outdoor u on indoor	control adap init (Must be r units.)	tor for installed	DTA104A53, 61, 62	 Cooling/Heating mode change over. Demand control and Low noise control are available between the plural outdoor units.
Conta	DIII-NET expander adaptor			DTA109A51	 Apply to increase the number of connected outdoor units with a multi-zone controller. Overcome communication errors in electrically noisy environments.

1.6 Open Protocol Interface

Integrated control systems that recognize the trend of open protocol control systems

Compatibility with BMS open protocols by utilizing the international communication standards, BACnet , LONWORKS, or Modbus.



DMS502B71 (Interface for use in BACnet)



DTA116A51 (Modbus communication adaptor)



DMS504C71 (Interface for use in LONWORKS)



DCM014A51 (intelligent Touch Manager + BACnet Server Gateway Option)



AZAI6WSPDKC (DKN Plus Interface)



AZAI6WSPDKA (DKN Cloud Wi-Fi Adaptor)

DMS502B71 Interface for use in BACnet

- Conformance class 3 (ASHRAE 135)
- Standard BACnet Device B-ASC (ASHRAE 135)
- BACnet/IP over Ethernet
- Up to 40 outdoor units and 256 indoor unit groups on one gateway. (optional expansion adaptor)
- BTL listed

DTA116A51 Modbus Communication Adaptor

- BMS interface based on Modbus (RS485, which communicates via Modbus RTU)
- Gateway between Daikin DIII-Net and BMS Modbus workstation
 - Manages up to 16 indoor units and 2 outdoor units
- Preferred low cost alternative to typical BMS gateways and protocols

DMS504C71 Interface for use in LONWORKS

- ■XIF file for confirming of specifications of the units.
- Connectable up to 10 outdoor units and 64 indoor unit groups.

DCM014A51 intelligent Touch Manager + BACnet Server Gateway Option

- Direct connection to the VRV System using the intelligent Touch Manager as a Gateway
- Individual device ID assigned to each indoor unit and outdoor unit management point
- Seamless control logic integration between the intelligent Touch Manager and BMS
- Greatly reduces the need for BMS integrator programming
- Up to 128 indoor unit and outdoor unit management points can be controlled and monitored by the BMS

AZAI6WSPDKC DKN Plus Interface

- Versatile interface adaptor that can integrate with a third-party thermostat/BMS through multiple approaches:
 - Cloud API
 - Modbus
 - BACnet MS/TP
 - Thermostat Relay Control: Y/W/G (Cool/Heat/Fan)

AZAI6WSPDKA DKN Cloud Wi-Fi Adaptor

- The adaptor that can integrate with a third-party thermostat/BMS through multiple approaches:
 - Cloud API
 - Modbus

1.7 Localized Control

For more effective localized environmental control Daikin offers variety of control options such as single or double remote control or centralized control. This enables the construction of a variety of operational control systems which can be adapted for a wide range uses from remote control to building automation.

	Control Method	Objective / Use	Unit Name and Model	Function	Standard Number of Units	
	Local operation of remote controller	Example of typical use			1 remote controller controls 1	
Remote Controller	Remote operation of remote controller	For control from multiple locations	Navigation Remote Controller BRC1E73	Navigation Remote Controller BRC1E73	indoor unit	
	2 remote control *1, *3	For control from 2 places (distant or local)	Madoka Remote Controller BRC1H71	Main Menu Airflow Direction Ventilation Schedule Celsius / Fahrenheit Maintenance Information Configuration Current Settings	2 remote controllers control 1 indoor unit (Main and sub remote controllers)	
	Group control *1, *2	For the control of multiple indoor units at the same time		Clock & Calendar Daylight Saving Time Language Service Settings Test Operation Maintenance Contact Field Settings	1 remote controller controls up to 16 indoor units simultaneously	
	Group control with 2 remote controllers *1 *2, *3	For control from multiple locations		 Energy Saving Options Prohibit Buttons Min Setpoints Differential Group Address Indoor unit AirNet Address Outdoor unit AirNet Address Error History Indoor Unit Status 	2 remote controllers control up to 16 indoor units from 2 different places simultaneously	
Other devices	Group control *1, *2, *4	For the control of multiple indoor units at the same time	Daikin One+ Smart Thermostat DTST-ONE-ADA-A	 Outdoor Unit Status Forced Fan ON Switch Main Sub Controller Filter Indicator 	1 remote controller controls up to 16 indoor units simultaneously	
	Group control *1, *2, *5		DKN Cloud Wi-Fi Adaptor AZAI6WSCDKA			

Note:

- *1. Connection to indoor unit: For group control it is connected to 1 unit out of the group, and in the case of control with 2 remote controllers both controllers are
- connected to the indoor unit.
 *2. In the case of group control, the controller used as the main controller must be selected with the Navigation/Madoka Remote Controller connected with the indoor unit having auto-swing function.
- *3. In the case of using two remote controllers, the power supply connector (X35A, etc.) on the indoor printed circuit board and the adaptor for wiring (KRP1C74/75) cannot be used at the same time.
- *4. Cannot use together with other wired or wireless controllers.
- *5. The adaptor can used together with the Navigation/Madoka remote controller (optional).



Centralized control using multi-zone controllers

	Control Method	Objective / Use	Unit Name and Model	Function	Standard Number of Units	
Control by Multi-zone Controllers	intelligent Touch Manager	For providing centralized control of a Daikin VRV system and other building equipment	DCM601A71	 Independent Cool, Heat, and Setback Setpoints Automatic Changeover in Heat Pump and Heat Recovery Systems Setpoint range limitation Simple Interlock Alarm email Errors and Operation History Power Proportion Distribution Option Various automatic control functions Remote access function VRV Power Proportional Distribution function DIII-NET connection BACnet Client option monitors and controls ancillary equipment via BACnet/IP BACnet Server option used to integrate VRV indoor units and outdoor units to a BMS Operation data available for last 5 days 	Controls up to 64 groups (Max. 512 indoor units groups) with one intelligent Touch Manager. (Up to 7 iTM Plus Adaptor can be use to maximize indoor unit group count)	
	Central Remote Controller	For central control of indoor units	DCS302C71	 Max. 64 groups (128 indoor units controllable) Max. 128 groups (128 indoor units) are controllable by using 2 central remote controllable by using 2 central remote controllers, which can control from 2 different places. Zone control Malfunction code display Max. wiring length 3,280-27/32 ft. (Total : 6,561-11/16 ft.) Combination with schedule timer and BMS system Airflow rate and direction can be controlled individually for indoor units in each group operation. Ventilation rate and mode can be controlled for Heat Reclaim Ventilator. Up to 4 Start/Stop pairs can be set per day by connecting a schedule timer. 	One central remote controller may control a maximum of 64 groups of indoor units (Max. 128 indoor units)	



Control method using open protocol interface

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Control Method	Objective / Use	Unit Name and Model	Function	Standard Number of Units
		 Interface for use in BACnet DMS502B71 	Interface for use in BACnet Interface unit to allow communications between VRV and BMS	Interface for use in BACnet: Up to 256 indoor unit groups (512 indoor units) When the option DIII board is used
Building Control System	Building Management System (BMS) control for air- conditioning are carried out by	 Interface for use in LonWorks DMS504C71 Image: A state of the state of	Interface for use in LONWORKS Interface unit to allow communications between VRV and BMS	Interface for use in LonWorks: Up to 64 indoor unit groups (128 indoor units)
	communication and contact signal.	 Modbus Communication Adaptor DTA116A51 	Modbus Communication Adaptor allows communication between VRV and BMS	Modbus Communication Adaptor: Up to 16 indoor units and 2 outdoor units
		 iTM BACnet Server Gateway Option 	 Direct connection to the <i>VRV</i> system using the iTM as a gateway Individual device ID assigned to each indoor unit management point Seamless control logic integration between the iTM and BMS Greatly reduces the need for BMS integrator programming 	Up to 128 indoor unit groups and 20 outdoor units



Control Method	Objective / Use	Unit Name and Model	Function	Standard Number of Units	
		DKN Plus Interface AZAI6WSPDKC	 Versatile interface that can integrate with a third-party thermostat through multiple approaches: Cloud API, Modbus, BACnet MS/TP, Thermostat G/Y/W Relay Control: Fan, Cool, Heat Easy commissioning with Daikin's Bluetooth furnace configuration app Modbus and BACnet MS/TP Integration 	Up to 16 indoor units	
Local Control BMS Interface	Building Management System (BMS) control for air- conditioning are carried out by communication and contact signal.	DKN Cloud Wi-Fi Adaptor AZAI6WSCDKA	 A wired remote controller is optional to connect to the indoor unit together with the Wi-Fi adaptor Compatible with Amazon Alexa and Google Home voice control The Wi-Fi adaptor wiring consists of a non-polar two-wire connection to the indoor unit at terminals P1/P2 and a connection to the indoor unit at terminals P1/P2 and a connector X18A or X35A (16VDC) Open API document is available for cloud to cloud integration Modbus Integration 	Up to 16 indoor units	
		 Adaptive Touch Controllerr BACRC-T* 	Communication between indoor unit and BMS using BACnet MS/TP.	Up to 16 indoor units	



1.8 BMS Integration Solutions

1.8.1 Compatibility with Multi-zone control

The table below shows which combinations of centralized control equipment are possible and which are not.

	intelligent Touch Manager	Interface for use in LonWorks	Interface for use in BACnet	Modbus Communication Adaptor	Adaptive Touch Controller	DKN Plus Interface
	DCM601A71	DMS504C71	DMS502B71	DTA116A51	BACRC-T*	AZAI6WSPDKC
intelligent Touch Manager	ОК	OK	OK	ОК	OK*	OK
Interface for use in LONWORKS	ОК	NG	NG	NG	NG	OK
Interface for use in BACnet	ОК	NG	NG	NG	OK	OK
Modbus Communication Adaptor	ОК	OK	OK	NG	NG	OK
DKN Plus Interface	ОК	ОК	ОК	ОК	NG	NG

Note:

*Humidity, CO₂ and external equipment input/output and interlocks on the Adaptive Touch Controller will not be displayed on the intelligent Touch Manager.



Name	Functions
Interface for use in BACnet (DMS502B71)	Interface unit to allow communications between <i>VRV</i> and BMS. Operation and monitoring of air-conditioning systems through BACnet communications.
Interface for use in LONWORKS (DMS504C71)	Interface unit to allow communications between VRV and BMS
Optional DIII board (DAM411B51)	Expansion kit, installed on the DMS502B71, to provide 2 more DIII-NET communication ports. Not for use independently.
intelligent Touch Manager (DCM601A71)	Main VRV control system or backup system if BMS fails.
Modbus communication adaptor (DTA116A51)	Allows integration between <i>VRV</i> and BMS. Operation and monitoring of the air-conditioning system through Modbus.
Adaptive Touch Controller (BACRC-T*)	Allows connected indoor unit integration directly to a BMS via BACnet MS/TP.
DKN Plus Interface (AZAI6WSPDKC)	Allows connected indoor unit integration directly to a BMS via BACnet MS/TP or Modbus communication.

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1.8.3 Available Control Points through different BMS gateways

1. iTM BACnet Server Gateway Points List

System configuration points linked to iTM control logic

Point Name	Point Description
Enable iTM Schedule Operation	Enable or disable iTM schedule operation
Enable iTM Auto Changeover Operation	Enable or disable iTM auto changeover logic.
Timed Override Minutes	Set override time in minutes
System Forced Off	The forced system stop command will force the indoor unit to stop running. Remote controllers will be locked out from restarting indoor units during the forced system stop event.

Indoor unit points

	Point Name	Point Description
	Unit On_Off Status	Monitors if the indoor unit fan is On or Off
	Alarm Status	Monitors whether or not the indoor unit is operating normally, and issues an alarm if the indoor unit has a malfunction. Error code is shown in the description.
S	Room Temperature	Monitors and displays the room temperature.
oin	Unit On Details	Indoor unit details operation Off - Normal (ON) - Override - Setback
gР	Filter Sign Status	Monitors filter run time and provides service alert.
rin	Indoor Fan Status	Monitors if the indoor unit fan is On or Off
nito	Communication Status	Monitor if the communication is normal or in alarm
ъ	Thermo-on Status	Monitors whether or not the indoor unit is actively cooling or heating.
	Compressor Status	Monitors if the compressor of the outdoor unit is On/Off/Defrost
	Aux Heater Status	Monitors if the external heater controlled by the indoor unit is operating.
	Changeover Option	Monitor if iTM changeover logic is active.

	Point Name	Point Description
	Occupancy Mode	Set the occupancy of the indoor unit occupied, Unoccupied or Standby
	Operation mode	Set Cool-Heat-Fan-Dry operation mode. For the indoor unit and monitors the latest mode
nts	Occ Cooling Setpoint	Sets the occupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
Poi	Occ Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
ng	Unocc Cooling Setpoint	Sets the unoccupied cooling setpoint of the indoor unit and monitors the latest setpoint value.
tori	Unocc Heating Setpoint	Sets the occupied heating setpoint of the indoor unit and monitors the latest setpoint value.
oni	Max Cooling Setpoint	Sets the maximum cooling setpoint of the indoor unit and monitors the latest setpoint value.
Σ	Min Cooling Setpoint	Sets the minimum cooling setpoint of the indoor unit and monitors the latest setpoint value.
an	Max Heating Setpoint	Sets the maximum heating setpoint of the indoor unit and monitors the latest setpoint value.
ion	Min Heating Setpoint	Sets the minimum heating setpoint of the indoor unit and monitors the latest setpoint value.
gurat	Min Setpoint Differential (Cooling & Heating)	Set the minimum differential value between cooling and heating setpoint and monitor the latest differential value.
onfi	Cooling & Heating Setpoint Tracking Mode	Enable or disable iTM setpoint tracking mode.
Ŭ	Fan speed	Sets the indoor unit fan speed and monitors the latest setting
tion	Timed Override Operation	Enable or disable iTM override timer
erat	Remote Controller Prohibit (On_Off)	Permits or prohibits the remote controller to control the indoor unit's On/Off.
g	Remote Controller Prohibit (Operation Mode)	Permits or prohibits the remote controller to control the indoor unit's operation mode.
	Remote Controller Prohibit (Setpoint)	Permits or prohibits the remote controller to control the indoor unit's setpoint.
	Filter Sign Reset	Clears the filter sign status.
	Forced Thermo-off	Force the indoor unit to stop actively cooling or heating.

2. Interface for use in BACnet

Daikin indoor unit monitoring and control points accessible through the DMS502B71

- Check the appropriate box indicating the required integrated points for this project.

	Function	Description
	On/Off (Note 2)	Start/stops the indoor unit and monitors the latest status
	Operation Mode (Note 2)	Sets the Cool/Heat/Fan/Dry mode for the indoor unit and monitors the latest mode
٦ و	Setpoint setting	Sets the setpoint of the indoor unit and monitors the latest setpoint.
litorin	Filter sign and reset	Monitors filter run time, provides service alert, and allows a manual reset of the status as required.
d Mor	Remote controller permit/prohibit	Permits or prohibits the remote controller so that it can or cannot be used to control the indoor unit's On/Off/Operation mode/Setpoint
n, an	Lower Centralized Controller operation enable/disable	Enables or disables operation of a Centralized Controller connected to the DIII network .
atic	Fan Speed setting (Note 2)	Sets the fan speed and monitors the latest setting.
gur	Airflow direction setting (Note 2)	Sets the airflow direction and monitors the latest setting.
n, Confi	Forced system stop	The forced system stop command will force the indoor units to stop running based upon a received emergency alarm input. Remote controllers will be locked out from restarting indoor units during a forced system stop event.
ratio	Forced Thermo-off	In response to the forced thermo-off command, the indoor unit stops actively cooling or heating.
Ope	Energy saving	Offsets the internal setpoint +3.6°F (2°C) in cooling, and -3.6°F (-2°C) in heating in an indoor unit. The actual setpoint is not changed.
	Ventilation mode setting (Note 2)	Sets the ventilation mode and monitors the latest mode.
	Ventilation amount setting (Note 2)	Sets the ventilation amount and monitors the latest amount.
	On/Off status	Monitors the On/Off status of the indoor unit.
	Alarm	Monitors whether or not the indoor unit is operating normally, and issues an alarm if the indoor unit has a malfunction.
	Malfunction code	Displays a malfunction code specified by Daikin if an indoor unit in the system has a malfunction.
	Operation mode	Monitors if the indoor unit is in Cool, Heat, Fan, or Dry mode.
5	Room temperature (Note 1)	Monitors the room temperature.
nit	Filter sign	Monitors filter run time and provides service alert.
Ĕ	Thermo-on status	Monitors whether or not the indoor unit is in actively cooling or heating.
	Compressor status	Monitors if the compressor of the outdoor unit connected to the indoor unit is properly operating.
	Indoor fan status	Monitors if the indoor unit's fan is properly operating.
	Heater status	Monitors if the indoor unit's heater is properly operating.
	Ventilation mode status	Monitors the ventilation mode status of the Energy Recover Ventilator
	 Ventilation amount status	Monitors the ventilation amount status of the Energy Recovery Ventilator

- 1. Room temperature data (BACnet object name RoomTemp_XXX) by default is reported from the Daikin indoor units return air thermistor. This applies to all VRV indoor unit styles and capacities. During periods when the indoor unit is turned off or during certain operating modes that cycle the fan off including defrost operation, hot-start and system pressure equalization, the reported temperature may not accurately reflect the actual space temperature. For applications where this temperature value will be primary to system control including mode and temperature setpoint management, it is recommended that the Daikin remote temperature sensor (Part No. KRCS01-1B or 4B depending on model) is specified for each indoor unit and installed within the occupied space or unit be configured to be controlled from temperature sensor in BRC1E72/73 Navigation Controller if the unit is capable.
- 2. The indoor unit saves the settings for the Setpoint, On/Off, Operation mode, Airflow direction, and Fan Speed in the nonvolatile memory of the indoor unit each time they are changed, so that the settings will not be lost when a power loss occurs. This nonvolatile memory has a write count limit and may cause a failure if the "write to" count limit is exceeded. Therefore when the Setpoint, On/Off, Operation mode, Airflow direction, and Fan Speed of each indoor unit are automatically controlled from the building management system via the Interface for use in BACnet, be sure that the number of changes for each setting should not exceed 7,000 times per year.
- If the same value is repeatedly sent, it will not be added to the total "write to" count.
- 3. BACnet is a registered trademark of ASHRAE.

3. Inteface for use in Lonworks

Daikin air conditioner monitoring and control points accessible through the DMS504C71

- Check the appropriate box indicating the required integrated points for this project.

	Function	Description
	ON/OFF Status	Monitors the start/stop status of the indoor unit.
	Operation Mode Status	Monitors whether the indoor unit is in the cooling, heating or fan mode.
	Temperature Setpoint	Reports the current temperature setpoint of the indoor unit.
	Room Temperature (Note 1)	Reports the current return air or room temperature of the indoor unit. (Note 1)
	Airflow rate	Reports the current fan speed setting of the indoor unit.
	Filter Indication Status	Reports the status of the filter maintenance icon on the indoor unit remote controller.
	Error Status	Monitors the indoor unit malfunction status.
ints	Error Code	Reports a specific malfunction code for an indoor unit in alarm state.
od bu	Thermo Status	Reports whether the indoor unit is demanding heating or cooling capacity or if it is in a satisfied state.
tori	Forced Thermostat Off Status	Reports whether the indoor unit is forced to a satisfied state.
Moni	Remote Controller ON/OFF Restriction Status	Indicates the restriction status of the indoor units remote controller ON/OFF button.
	Remote Controller Operating Mode Restriction Status	Indicates the restriction status of the indoor units remote controller operation mode button.
	Remote Controller Temperature Setpoint Restriction Status	Indicates the restriction status of the indoor units remote controller temperature setpoint buttons.
	System Forced OFF Setting Status	Monitors the system forced off status for all indoor units connected to the Lon gateway.
	Sub-group Control Operation Restriction Setting Status	Monitors the network variable input status for permission/prohibition of centralized control devices on the DIII-Net bus.
	A/C Communication Status	Monitors the communication status of the indoor unit to the DIII-Net.
	 1	
	 ON/OFF Command	Starts and stops the indoor unit. (Note 2)
	Operating Mode	Sets the cooling/heating/ventilating/auto mode for the indoor unit. (Note 2)
	 Temperature Setpoint	Commands the temperature setpoint for the indoor unit. (Note 2)
on,	Airflow Rate (Fan Speed)	Sets the fan speed (high, low) for the indoor unit. (Note 2)
nts	 Filter Indicator Reset	Resets the filter maintenance indicator on the indoor unit.
poi	 Forced Thermo OFF Setting	Forcibly stops all cooling or heating capacity for the indoor unit.
ntrol	Remote Controller ON/OFF Restriction Setting	Disables the operation of the indoor unit remote controller ON/OFF button.
ation, nd co	Remote Controller Operating Mode Restriction Setting	Disables the operation of the indoor unit remote controller MODE button.
Opera	Remote Controller Temperature Setpoint Restriction Setting	Disables the operation of the indoor unit remote controller temperature setpoint buttons.
	System Forced OFF Setting	Forcibly stops/resets all indoor units that are under control of the Lon interface. Units cannot be started by a remote controller or centralized controller while in this state.
	Sub-group Control Restriction Setting	Network variable input to permit or prohibit the operation of Daikin centralized control devices on the DIII-Net bus.

Application Note

= Control Items pertaining to the entire system

- 1. Room temperature data (*SNVT_temp_p nvoSpaceTemp_nn*) by default is reported from the Daikin indoor units embedded return air thermistor. Depending upon the remote controller model and the manufacturing date of the indoor unit, this may be reconfigured to retrieve the room temperature value from the remote controller thermistor. During periods when the indoor unit is turned off or during certain operating modes that cycle off the fan including defrost operation, hot-start and system pressure equalization, the reported temperature may not accurately reflect the actual space temperature. For applications where this temperature value will be primary to system control including mode and temperature setpoint management, it is recommended that the Daikin remote temperature sensor (Part No. KRCS01-1B) is specified for each indoor unit or the remote controller is programmed to report room temperature through the gateway. Please consult Daikin AC for guidance with specific applications.
- 2. The Daikin indoor unit maintains the settings for temperature, start/stop status, operating mode, air direction and fan speed in the non-volatile memory each time they are changed. These settings will not be lost upon a power loss event.

4. Modbus Communication Adaptor

Monitor

On/Off	On/Off status of indoor units	
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)	
Setpoint	Setpoint of indoor units	
Room temperature	Suction temperature of indoor units	
Fan direction	Swing, Flap direction (depend on indoor unit capability)	
Fan volume	L, M, H (depend on indoor unit capability)	
Forced off status	Forced off status of indoor units	
Error	Malfunction, Warning with Error code	
Filter sign	Filter sign of indoor units	
Communication status	Communication normal/error of indoor units	

Control

On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units

5. DKN Plus Interface

Monitoring

Unit on/off	On/Off control of indoor units
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Mode (Auto/Cool/Heat/Fan/Dry)	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Fan speed	L, M, H (depend on indoor unit capability)
Louver position	Swing, Flap direction (depend on indoor unit capability)
Error code	Malfunction, Warning with Error code

Control

Unit on/off	On/Off control of indoor units
Setpoint	Setpoint of indoor units
Mode (Auto/Cool/Heat/Fan/Dry)	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Fan speed	L, M, H (depend on indoor unit capability)
Louver position	Swing, Flap direction (depend on indoor unit capability)

6. DKN Cloud Wi-Fi Adaptor

Monitoring

Unit on/off	On/Off control of indoor units
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Mode (Auto/Cool/Heat/Fan/Dry)	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Fan speed	L, M, H (depend on indoor unit capability)
Louver position	Swing, Flap direction (depend on indoor unit capability)
Error code	Malfunction, Warning with Error code

Control

Unit on/off	On/Off control of indoor units
Setpoint	Setpoint of indoor units
Mode (Auto/Cool/Heat/Fan/Dry)	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Fan speed	L, M, H (depend on indoor unit capability)
Louver position	Swing, Flap direction (depend on indoor unit capability)

7. Adaptive Touch Controller

- The following points are available through BACnet MS/TP:
- Monitoring Points

#	Value	Description	Туре
1	SPACE_SENSOR	Space Temperature Value Measured By Controller	R
2	REMOTE_CO2_SENSOR	Remote CO₂ Sensor Value	R
3	REMOTE_HUMIDITY	Remote Humidity Sensor Value	R
4	REM_SPACE/DAT_SENSOR	Remote Space Temperature Or Discharge Air Temperature Value	R
5	OUTDOOR_AIR	Outside Air Temperature	R
6	SENSOR_FAILURE	Sensor Failure Value	R
7	IU_SUCTION_AIR_TEMP	Indoor Unit Return Air Temperature	R
8	COOLING_HOURS	Cooling Hours	R
9	HEATING_HOURS	Heating Hours	R
10	NUMBER_IDU_CONNECTED	Number Of Indoor Unit Connected To The Controller	R
11	IDU_GAS_PIPE_TEMP	Indoor Unit Gas Pipe Temperature	R
12	IDU_LIQUID_PIPE_TEMP	Indoor Unit Liquid Pipe Temperature	R
13	IU_FAN_HOURS	Indoor Unit Fan Operation Time	R
14	ODU_FAN_STEP	Outdoor Unit Fan Step	R
15	IU_OPERATING_HOURS	Indoor Unit Operation Hours	R
16	IU_ENERGIZED_HOURS	Indoor Unit Energized Hours	R
17	IU_FAN_SPEED_RPM	Indoor Unit Fan Speed RPM	R
18	IU_EV_OPEN_PULSE	Indoor Unit EEV Pulses	R
19	OU_TH1_OAT	Outdoor Unit TH1 Value	R
20	OU_TH2_HEAT_EXCHANGER	Outdoor Unit TH2 Heat Exchanger	R
21	OU_TH3_DAT	Outdoor Unit TH3	R
22	OU_TH4	Outdoor Unit TH4	R
23	OU_TH5	Outdoor Unit TH5	R
24	OU_TH6	Outdoor Unit TH6	R
25	OU_EV1	Outdoor Unit EEV Pulses	R
26	OU_COMP_SPEED_RPM	Outdoor Unit Compressor Speed	R
27	OU_OPERATION_HOURS	Outdoor Unit Operation Hours	R
28	IU_TH4_DISCHARGE_AIR_TEMP	Indoor Unit Discharge Air Temperature	R
29	OU_FAN1_HOURS	Outdoor Unit Fan 1 Hours	R
30	OU_FAN2_HOURS	Outdoor Unit Fan 2 Hours	R
31	OU_COMP1_HOURS	Outdoor Unit Compressor 1 Hours	R
32	OU_COMP2_HOURS	Outdoor Unit Compressor 2 Hours	R
33	AUX_TOTAL_HOURS	Auxiliary Heat Total Hours	R
34	HEAT_TOTAL_HOURS	Heating Total Hours	R
35	COOL_TOTAL_HOURS	Cooling Total Hours	R
36	ALARM_ON-OFF_ECON	Configurable Point (Alarm Or Motion Sensor Or Econ)	R
37	SYSTEM_FORCED_OFF	System Forced Off (T1-T2)	R
38	ALARM_STATUS	Alarm Status	R
39	FILTER_SIGN_STATUS	Filter Sign Status	R
40	IU_COOLING_THERMO_ON	Indoor Unit Cooling Thermo On	R
41	IU_HEATING_THERMO_ON	Indoor Unit Heating Thermo On	R
42	COMMUNICATION_STATUS	Indoor Unit Communication Status	R
43	TIMED OVERRIDE STATUS	Override Status	R
44	IU_FAN_STATUS	Indoor Unit Fan Status	R
45	AUX_HEATER_STATUS	Aux Heater Status	R
46	EMEREGENCY_HEATER_STATUS	Emergency Heater Status	R
47	IU_VRV_CENTRAL_CONTROLLER	Central Controller Connection Status	R
48	IU_THERMO-ON_STATUS	Indoor Unit Thermo-On	R
49	DEHUM_MODE	Dehumidification Mode	R
50	HUMIDIFICATION_MODE	Humidification Mode	R
#	Value	Description	Туре
----	--------------------------	---	------
51	AUX_HEAT_STG_1	Aux Heat Stg 1	R
52	AUX_HEAT_STG_2	Aux Heat Stg 2	R
53	ADPTR AUX Heat Status	Indoor Unit Aux Heat Status	R
54	CALL_FOR_DEHUM	Dehumidification Call	R
55	AUXH_EMERGENCY_OPERATION	Aux Heater Emergency Heater Operation	R
56	DEFROST_OIL_RETURN_MODE	Defrost Oil Return Mode Value	R
57	ECONOMIZER_MODE	Economizer Mode	R
58	TIMED_OVERRIDE_OPERATION	Time Override Operation	R
59	MOTION	Motion Sensor Value	R
60	MOTION_SENSOR_OUT	Motion Sensor Output	R
61	DIGITAL_OUTPUT_1_STATUS	Digital Output 1 Status Value	R
62	DIGITAL_OUTPUT_2_STATUS	Digital Output 2 Status Value	R
63	DIGITAL_OUTPUT_3_STATUS	Digital Output 3 Status Value	R
64	DIGITAL_OUTPUT_4_STATUS	Digital Output 4 Status Value	R
65	IU_CAUTION_1	Indoor Unit Caution	R
66	IU_WARNING	Indoor Unit Warning	R
67	IU_ERROR	Indoor Unit Error	R
68	ALARM_CONTACT	Alarm Contact Status	R
69	IU_DRAIN_PUMP_MP	Indoor Unit Drain Pump Status	R
70	IU_HUMIDIFIER	Indoor Unit Humidifier Status	R
71	IU_ANTIFREEZING_TBF	Indoor Unit Antifreeze Operation Status	R
72	IU_FLOAT	Indoor Unit Float Status	R
73	IU_RC Fan Prohibit	Indoor Unit Fan Speed Change Prohibit	R
74	On Prohibit	Indoor Unit On Prohibit	R
75	IU_TEST_RUN	Indoor Unit Test Run Operation	R
76	TEST_OPERATION	Test Operation Status	R
77	OU_TEST_RUN	Outdoor Unit Test Run Operation	R
78	Backup Operation	Outdoor Unit Backup Operation	R
79	IU_RC_LouverProhibit	Indoor Unit Louver Prohibit	R
80	IU_CHANGEOVER_OPTION	Indoor Unit Master Status	R
81	OU_SV1	Outdoor Unit SV1 Value	R
82	FORCED_THERMO_OFF_STATUS	Forced Thermo Off Status Value	R
83	FORCED_STPT_SHIFT	Indoor Unit Setpoint Shift	R
84	OU OP MODE ACTUAL DISP	Outdoor Unit Actual Mode	R

Control Points

#	Value	Description	Туре
1	AUX_HEAT	Auxiliary Heat Output (Modulating)	W
2	CO2_DAMPER	CO₂ Damper Outoput (Modulating)	W
3	HUMIDIFIER_DEHUMIDIFIER	Humidifier Or Dehumidifier Output (Modulating)	W
4	IU_W_CONTROL_TEMP	Control Temperature Used By The Controller	W
5	UI_COOL_STPT	Active Cooling Setpoint	W
6	UI_HEAT_STPT	Active Heating Setpoint	W
7	OCC_COOLING_STPT	Occupied Cooling Setpoint	W
8	OCC_HEATING_STPT	Occupied Heating Setpoint	W
9	UNOCC_COOLING_STPT	Unoccupied Cooling Setpoint	W
10	UNOCC_HEATING_STPT	Unoccupied Heating Setpoint	W
11	MIN_COOLING_STPT	Minimum Cooling Setpoint	W
12	MAX_COOLING_STPT	Maximum Cooling Setpoint	W
13	MIN_HEATING_STPT	Minimum Heating Setpoint	W
14	MAX_HEATING_STPT	Maximum Heating Setpoint	W
15	AUX_H_CONFIG_OAT_STPT	Outside Air Temperature Setpoint For Aux Heat Logic	W
16	AUXH_PROP	Aux Heat Control Proportional	W
17	AUXH_INTG	Aux Heat Control Integral	W
18	DEHUM_STPT	Dehumidification Setpoint	W
19	HUM_HYSTERESIS	Hysteresis Used For Humidity Control	W
20	DEHUM_PROP	Dehumidification Control Proportional	W
21	DEHUM_INTG	Dehumidification Control Integral	W
22	HUM_PROP	Humidification Control Proportional	W
23	HUM_INTG	Humidification Control Integral	W
24	SPACE_HUM	Space Humidity Value	W
25	HUMIDITY_STPT	Humidification Setpoint	W
26	CO2_STPT	CO₂ Control Setpoint	W
27	CO2_DIFFERENTIAL	CO ₂ Control Differential	W
28	CO2_MINIMUM_POSITION	CO₂ Damper Minimum Position For Occupied Mode	W
29	CO2_MAXIMUM_POSITION	CO₂ Damper Maximum Position For Occupied Mode	W
30	CO2_UNOCCUPIED_POSITION	CO₂ Damper Unoccupied Position	W
31	CO2_TIME_DELAY	Time Delay For CO ₂ Control (Minutes)	W
32	CO2_PROP	CO₂ Control Proportional	W
33	CO2_INTG	CO₂ Control Integral	W
34	SPACE_CO2	Space CO₂ Value	W
35	MOTION_UNOCC_DELAY	Time To Set To Unit To Unoccupied When No Motion Is Detected	W
36	OCCUPANCY_RELAX_MAXIMUM	Maximum Setpoint Relax When No Motion Is Detected	W
37	DEMAND_SETPOINT_RELAX_CLG	Cooling Setpoint Relaxation Value During Demand Limit	W
38	DEMAND_SETPOINT_RELAX_HTG	Heating Setpoint Relaxation Value During Demand Limit	W
39	DEMAND_RECOVERY_STEP_TIME	Demand Recovery Step Time Minutes	W
40	ECONOMIZER_TIMER	Economizer Timer	W
41	COOL_MODE_TEMP_OFFSET	Cool Mode Temp Offset Value	W
42	HEAT_MODE_TEMP_OFFSET	Heat Mode Temp Offset Value	W
43	OUTDOOR_TEMP	Outdoor Temp	W
44	DISCHARGE_AIR_TEMP	Discharge Air Temp	W
45	STAGE_DELAY	Stage Delay For Aux Heat	W
46	FILTER_SIGN_RESET	Filter Sign Reset	W
47	HUMIDITY_CONTROL_ALWAYS	Enable Humidity Control During Unoccupied Mode	W
48	HUM_OVRRIDE	Turn On Humidity Control During Override	W
49	REMOTE_HUMIDITY_SENSOR	Enable Remote Humidity Sensor	W
50	HUMIDIFY_DURING_HEAT	Allow Humidity Control During Heat	W
51	OCCUPIED_MODE	Occupied Mode	W

#	Value	Description	Type
52	ENABLE LOCAL SCHED	Enabled Local Schedule	W
53	STPT HOLD	Hold Enable	W
54	STPT_TRACKING	Setpoint Tracking Mode	W
55	DAT SENSOR	Enables Remote Discharge Air Temperature	W
56	DEHUM WOUT FAN	Dehumidification Without Fan	W
57	OAT SENSOR	Enable Outside Air Sensor	W
58	HUMIDIFY WOUT FAN	Humidifv Without Fan	W
59	ENABLE REMOTE CO2 SENSOR	Enable Remote CO ₂ Sensor Monitoring	W
60	DEHUM OVERCOOL STATUS	Overcooling To Dehumidify	W
61	SPEED UP	Speed Up Timers	W
62	RC PROHIBIT MODE OPERATION	Remote Controller Prohibit Mode Operation	W
63	REMOTE CONTROLLER PROHIBIT STPT	Remote Controller Prohibit Setpoint	W
64	ENABLE DEMAND CONTROL	Enables Demand Control	W
65	CO2 VENT ENABLE	Enable CO₂ Control	W
66	CONTINUOUS AUX FAN	Enable Fan Operation During Aux Heat	W
67	FORCE FAN	External Forced Fan Input	W
68	CALL FOR HUMIDIFICATION	Humidification Call	W
69	HUMIDIFIER OUT	Humidifier Output Status	W
70	ECONOMIZER	Economizer Status	W
71	CO2 ALARM OUT	CO₂Alarm Status	W
72	DEHUMIDIFIER OUT	Dehumidification Output Status	W
73	ENERGY SAVINGS ICON	Energy Saving Icon Status	W
74	AUX HEAT FAN	Check For Fan Before Running Aux Heat	W
75	Humidity Display Enable	Enable Humidity Display	W
76	CO2 Display Enable	Enable CO ₂ Display	W
77	OAT Display Enable	Enable Outside Air Sensor Display	W
78	OPERATION MODE	Controller Operation Mode	W
79	AUX HEAT CONFIGURATION	Aux Heat Configuration Setting	W
80	OVER COOL FAN SPEED	Overcool Mode Fan Speed	W
81	FAN MODE	Fan Speed	W
82	SCHEDULE OCC MODE	Occupancy Mode To Be During Start Of Schedule	W
83	ROOM TEMP CALCULATION	Room Temperature Calculation Logic	W
84	PRI CHANGEOVER DEADBAND	Primary Changeover Deadband	W
85	SEC CHANGEOVER DEADBAND	Second Changeover Deadband	W
86	GUARD TIME	Autochangeover Gaurdtimer Value	W
87	MIN STPT DIFFERENTIAL	Minimum Setpoint Differential Value	W
88	TIMED OVERRIDE MINUTES	Timed Override Minutes	W
89	COOLING UNOCC RECOVERY	Cooling Unoccupied Recovery Setpoint	W
90	HEATING UNOCC RECOVERY	Heating Unoccupied Recovery Setpoint	W
91	DEMAND CONTROL	Demand Control	W
92	OCCUPANCY SENSOR LOGIC	Occupancy Sensor Logic	W
93	OCCUPANCY RELAX TIME DELAY	Occupancy Sensor Setpoint Relax Time Delay	W
94	IU_LOUVER_2_POSITION	Indoor Unit Louver 2 Position	W
95	INPUT_6_CONFIGURATION	Binary Input 6 Configuration	W
96	CO2_DAMPER_SELECTION	CO₂ Damper Type Selection	W
97	IU_W_AIRFLOW_DIRECTION	Indoor Unit Louver Direction	W
98	DO-1_SETTING	Do 1 Setting Value	W
99	DO-2_SETTING	Do 2 Setting Value	W
100	DO-3_SETTING	Do 3 Setting Value	W
101	DO-4_SETTING	Do 4 Setting Value	W
102	DEHUMIDIFICATION	Dehumidification Control Type	W
103	HUMIDIFICATION	Humidification Control Type	W
104	EXTERNAL_DEHUM_CONTROL	External Dehumidification Control Type	W
105	OVERCOOL_OPTION	Overcool Degree	W

2. Control Devices

2.1 BRC1E73 Navigation Remote Controller (Wired Remote Controller)

2.1.1 Features



BRC1E73

- Selectable Screen Display 3 types of displays are available; Standard, Detailed and Simple.
- Clear Display......Equipped with backlight and large sized character display and buttons.
- StylishBasic tone is white and arrow keys are located at the center.
- Simple OperationSimple operation used with arrow keys and menu-driven method.
- Multilingual DisplayAvailable for selection of 3 languages to display arbitrarily.
- Convenient Features......Schedule function and Daylight Saving Time function are improved.

Selectable Screen Display

- Thanks to dot LCD, 3 different displays can be selected to meet various customers.
- New Simple display helps the customers to use easily.
- In Auto mode, the actual operation mode (Cool or Heat) is newly displayed.

Detailed display

Standard display

$\frac{\text{Auto}}{\text{Cool}} \xrightarrow[\text{Room}]{\text{Room}} \xrightarrow[\text{Cool}]{\text{Set to}} \\ 75_{\text{F}} \xrightarrow[\text{Heat}70_{\text{F}}]{\text{Heat}} \\ \hline \end{array}$





Simple display



· Larger room temperature display

Layout to fill the entire screen

Note:

 CONTROL
 , CONTROL of , and

 This function is not available

 are not displayed.

2.1.2 Functions Functions

Category	Function	BRC1E73
	Drawing display	Full dot LCD
Basic Functions	Operation method	Menu selection
Backlight function		✓
	Clock function (time display)	\checkmark
	Display selection	√ *1
Convenient Functions	Keylock function	\checkmark
	Daylight saving time function	\checkmark
	Schedule (weekly) timer	\checkmark
	Model name display	✓ *2 *3 *5
Maintananaa (Carriana	Contact dealer display	✓ *3 *4
Maintenance/Services	Operation time display	√*2
	Operational data display	√*2

✓: Possible

Note:

*1 Used for setting Standard Display mode, Detailed Display mode or Simple Display mode.

*2 Can display for some model only.

*3 When an error occurs, the error code blinks and the contact address and model names appear.

*4 The contact address must be registered when the controller is installed.

*5 For some models, model codes are displayed instead of model names.

Restrictions

1. In the case of 2 remote control system.

		Main				
		BRC1E73	Wireless BRC4*** BRC7***	DKN Cloud Wi-Fi Adaptor AZA***	DKN Plus Interface AZA***	
	BRC1E73	✓	—	✓	✓	
Cut	Wireless BRC4*** BRC7***	_	_	~	~	
Sub	DKN Cloud Wi-Fi Adaptor AZA***	✓	—	_	_	
	DKN Plus Interface AZA***	✓	_	_	_	

✓: Connectable —: Not connectable

Due to the limited power supply capacity, there are some restrictions when controlling 2 remote controllers.

Common restriction for SkyAir and VRV

When controlling one indoor unit with 2 remote controllers, the remote controller operated first turns the backlight on.

 Restriction for VRV only When configuring two remote controllers system, Adaptor for wiring (KRP1*) or Power supply of Adapter for indoor unit (X18A, X35A) is unable to use due to capacity.

When controlling 2 remote controllers, the following functions cannot be set with the sub remote controller.

- Schedule
- Auto Changeover
- Setback
- Dual Setpoint

(For the details, refer to operation manual.)

2. In the case of centralized controller connection.

- When connecting centralized control equipment (*1), the following functions can be re-enabled with a field setting.
 - Schedule
 - Auto Changeover
- Setback

Note:

- *1. This means all centralized controller.
 - intelligent Touch Manager [DCM601A71]
 - Interface for use in BACnet [DMS502B71]
 - Central remote controller [DCS302C71]
 - Wiring adaptor for electrical appendices [KRP1C74/75]
 - Interface for use in LONWORKS [DMS504C71]

2.1.3 Specifications

			New Remote Controller BRC1E73	
Dimension (H × W × D) in.		in.	4'3/4" × 4'3/4" × 3/4"	
	Display size (H × W)	in.	1'25/32" × 2'13/16"	
LCD	Display method		Full dot method (dot 160 × 255)	
200	Backlight		Yes (Background color: white)	
Color			Fresh white	

C: 3D091305A

2.1.4 Dimensions



2.1.5 Applicable Models Applicable Models

	Applicable Indoor Unit
VRV	All models with P1P2 termination
SkyAir	All models with P1P2 termination
RA	All models with P1P2 termination

2.2 BRC1H71 Madoka Wired Remote Controller

2.2.1 Features



Sleek Stylish Design

Much like the perfection of its circular shape, the remote controller gives you perfect control over your individual climate.

Simple Interface

The remote controller combines functionality and simplicity. The minimalistic touch button control enlarges the display and makes the remote controller easy to use.

The Madoka Quick Set APP for Installer

Simplifies the advanced settings such as field settings and set point range.

- · Visual interface simplifies advanced settings such as energy saving activation, setting restrictions, etc.
- Easy and quick commissioning, saves time and cost for installers.
- Featuring Daikin's Bluetooth furnace low energy technology.

Shorter and Easier Installation

The application connected to this controller provides 2 modes, Owner / Administrator mode and Installer mode (no end-user mode). While traditional setting at the controller unit is still available, Installer mode makes installation faster and easier with

- · On-site setting through smartphone application
- · Set up multiple settings at once
- Save and reuse settings

Display

Provides 3 selectable options for the display view: Text, Icon and Scale.



Text mode



Icon mode



Scale (text mode / icon mode)

2.2.2 Functions **Functions**

		Remote controller			Application (Smartphone)		
Category	Functions	Basic operation	Administrator menu	Installer menu	Owner / Administrator mode	Installer mode	Remarks
	Operation Start / Stop	~					
	Operation mode	~					
	Airflow rate (Fan speed)	~					The number of airflow steps depends on indoor unit model.
Basic	Airflow direction	~					
Function	Setpoint	✓					
	Ventilation rate	~					Available for only when Energy Recovery Ventilator
	Ventilation mode	~					is connected.
	Celsius / Fahrenheit	~			~	~	
	Setpoint range set				~	~	
Energy Saving	Sensing sensor low mode				~	~	Applicable for the indeer unit with infrared sensors
	Sensing sensor stop mode				~	~	
	Airflow direction range (for Floor standing type)					~	
	Individual airflow direction control				~	~	Applicable for the indoor unit with this function.
	Setback				~	~	
Comfort	Draft prevention				~	~	Applicable for the indoor unit with this function.
	Auto cooling / heating changeover (for Heat pump type)				~	~	This note does not apply to the US market. WLAN not used with SkyAir models.
	Setpoint minimum differential				~	~	Allowed to disable the settings.
Filtor	Filter sign (Reset)	~					Filter sign notifies the time to clean the filter of indoor unit.
Indicator	Element sign (Reset)	~					Element sign notifies the time to clean the element of air purifier unit when the indoor unit connected with air purifier unit.
	Prohibit function (user menu items)				~	~	Set whether user can change basic functions in each menu.
Option	Prohibit function (center button prohibit)				~	~	
	Prohibit function (operation Mode)				~	~	Limit available operation mode from remote controller in each mode.
	Contrast adjustment		~				
	LCD backlight adjustment		~		~	~	
Display	LED brightness adjustment (screen Backlight ON)	~			~	~	The brightness of LED (Status indicator) when
	LED brightness adjustment (screen Backlight OFF)	~			~	~	Also, LED can be turned off.
	Auto display OFF			√		~	
	Date and time setting		~		~	~	
	Daylight Saving Time (DST)				~	~	
	R/C field settings			~		~	
	Display icon customization			~		~	
Remote Controller	Remote controller thermostat temperature offset			~		~	
Setting	BLE settings (Pairing screen)		~		~	~	
	Set / release Cooling / Heating master (for VRV)			~			Decision procedure for the Master Control is same as BRC1E73.
	Administrator Password Settings		~		~		Default is no password
	Installer Password Settings			~		~	

✓: Possible

Note:

1. Installer mode includes functions in the Owner / Administrator mode.

Installer mode requires dedicated QR code for startup.
 It can be obtained by either accessing the Daikin Business Portal or by contacting your local Daikin sales office.

Restrictions

Limitation of two control connection

There is a limitation when connecting two controllers to one indoor unit because of lack of electricity supply.

All Indoor Unit restriction

• BRC1H71 cannot connect with E type and C type controller to one indoor unit, refer to the correspondence table below.

				Main		
		New BRC1H71	Current BRC1E73	Wireless BRC4*** BRC7***	DKN Cloud Wi-Fi Adaptor AZA***	DKN Plus Interface AZA***
	New BRC1H71	\checkmark	_	_	~	~
	Current BRC1E73	—	~	—	~	~
Sub	Wireless BRC4*** BRC7***	—	_	~	~	~
	DKN Cloud Wi-Fi Adaptor AZA***	\checkmark	~	_	_	_
	DKN Plus Interface AZA***	\checkmark	~	_	_	_

✓: Connectable —: Not connectable

- In the case of two control connection, the backlight of the remote control that you operated the button first turns on.
- In the case of two control connection Heat pump changeover and Setback are not able to be set on sub controller.

Restriction for VRV only

• When configuring two remote controllers system, Adaptor for wiring (KRP1*) or Power supply of Adapter for indoor unit (X18A, X35A) is unable to use due to capacity.

2.2.3 Specifications Remote Controller

	Dimension (H \times W \times D)	3"11/32 × 3"11/32 × 63/64 (in) 85 × 85 × 25 (mm)		
	Size (H × W)	1 × 1"/1/2 (in) 25.48 × 38.23 (mm)		
LCD	Display area	Full dot 100 × 150 dot (H × W)		
	Backlight	Available		
	Color	White on black background		
Plastic case color		White		
Buttons		Physical SW × 1 + Touch SW × 3		
Operation LED		Blue / Red / Greem Dimmable		

BLE Specification

Daikin's Bluetooth furnace	Daikin's Bluetooth furnace 4.2 (BLE)
Paring algorithm	Numeric comparison

Apps Specification

	Android OS	iOS
Recommended OS version	Android OS 9	iOS 12
Recommended smartphone model	Galaxys 10	iPhone XS

2.2.4 Dimensions BRC1H71W



Plastic Cover



2P614991C

41.65

41.65

1

Installation Metal Fitting







2.2.5 Applicable Models *VRV* Indoor Unit

		Model name
	Sensing flow	FXFQ-TVJU
Cassette	2 x 2	FXZQ-TAVJU
	Single flow	FXEQ-PVJU
Wall mount		FXAQ-PVJU
		FXMQ-PBVJU
Duct	HSP duct	FXMQ-MVJU
Duci	MSP duct	FXSQ-TAVJU
	Slim duct	FXDQ-MVJU
Ceiling suspended		FHQ-MVJU
Wonderful		FXUQ-PVJU
		FXLQ-MVJU9
Floor standing		FXNQ-MVJU9
Vertical AHU		FXTQ-TAVJU
Cased coil unit		CXTQ-TASBLU
VAM		VAM-GVJU
Outside air processing unit		FXMQ-MFVJU

SkyAir Indoor Unit

	Model name
Wall mount	FAQ-TAVJU
Duct	FBQ-PVJU
Sensing flow	FCQ-TAVJU
Ceiling suspended	FHQ-P(M)VJU
Vertical AHU	FTQ-TAVJU

Mini-Split Indoor Unit

	Model name
2 x 2	FFQ-Q2VJU
Duct	FDMQ-RVJU

2.3 DTST-ONE-ADA-A Daikin One+ Smart Thermostat

MODEL COMPATIBILITY:

Compatible with *VRV* and *VRV* Life indoor unit models: CXTQ, FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ

SPECIFICATIONS:

Model		DTST-ONE-ADA-A
Description		Daikin One+ Smart Thermostat for Ductless Products
Maximum Connection	ons	1 for S21 indoor units (cannot use together with another wireless remote controller or wired remote controller)
	Power Wire	5.5 ft (included)
	x Wiring Length Thermostat Wire 125 ft (Field-supplied, 18AW non-shielded wire) P1P2 Communication Wire 6 ft* for the wire between the Adaptor and the indoor unit the (Field-supplied, 18AWG, 2-c stranded wire)	125 ft (Field-supplied, 18AWG, 4-conductor non-shielded wire)
Max Wiring Length		6 ft* for the wire between the Translation Adaptor and the indoor unit terminal block (Field-supplied, 18AWG, 2-core non-shielded stranded wire)
Deven Comple	Thermostat	Obtained from the Translation Adaptor
Power Supply	Translation Adaptor	110-240 VAC
Dimensions	. Thermostat 6.8" x 3.4	6.8" x 3.4" x 0.8"
Dimensions	Translation Adaptor	2.7" x 7.3" x 1.3"
Mainht	Thermostat	10.5 oz
weight	Translation Adaptor	18.4 oz
Storage Temperatur	e	32°F to 120°F
Operation	Thermostat	32°F to 120°F
Temperature	Translation Adaptor	-40°F to 150°F
Humidity		20 to 95%RH (non-condensing)
Thermostat Screen		640 pixels × 480 pixels × 24 bits RGB
Compliance (Thermo	ostat only)	Compliant to California Title 24 (OCST listed), FCC Certified (FCC Part 15 subpart B), UL Listed

PRODUCT IMAGE:

Thermostat:



Translation Adaptor (Included):



* P1P2 wire has a maximum wiring length of 1640 feet

FEATURES:

- Stylish design
 - o Capacitive multi-touch display
 - o Easy rotational dial for precise setpoint adjustment
 - o Light pipe indication for heating/cooling operation
- Remote control and software update
 - o Wifi-enabled smart thermostat with iOS and Android app control
 - o Voice control by Amazon Alexa and Google Assistant
 - o Over-the-air software updates
 - o Outdoor environment report: outdoor temperature, outdoor humidity, and weather forecast
- Intelligent energy management
 - o Energy and comfort functions: Schedule/Adjustment Hold/Away mode with geo-fencing
 - o Programmable schedule with up to 6 scheduled events per day
- Versatile indoor comfort control
 - o Indoor unit control: Mode (Auto/Heat/Cool/Off), Setpoint, Fan Speed (Heat/Cool), Louver position
 - o Built-in temperature and humidity sensors
 - o Dehumidification with overcooling function
 - o Error Code and maintenance notification
- External device support
 - o Built-in Daikin's Bluetooth furnace and Sub GHz communication
 - o Two dry contacts for auxiliary devices
- Complete support
 - o Multi-language support: English, Spanish, French
- Compliant to California Title 24 (OCST listed)

SYSTEM DIAGRAM:

- Connect to one indoor unit control group (up to 16 indoor units)
- Cannot use together with another wireless remote controller or wired remote controller



WIRING DIAGRAM:



DIMENSIONS:

• Thermostat:



• Translation Adaptor:





2.4 BACRC-T-P01/ BACRC-TH-P01/ BACRC-THO-P01/ BACRC-THOC-P01 Adaptive Touch Controller

MODEL COMPATIBILITY:

Compatible with *VRV* indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, CXTQ

Compatible with SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ

Compatible with Single Zone/Multi Zone/SkyAir system indoor unit models: FDMQ, FFQ

SPECIFICATIONS:

Model		BACRC-T-P01/ BACRC-TH-P01/ BACRCTHO-P01/ BACRC-THOC-P01
Description		Adaptive Touch Controller
Maximum Indoor Un	its	16 indoor units in one remote controller group
Max Wiring Length (P1P2)	1640 ft
Dimensions		3.50 in x 5.12 in x 1.12 in
Weight		0.6202 lbs. in box
Communication Pro	tocol	P1P2
Storage Temperatur	e	-40°F to 140°F
Operation Temperat	ure	32°F to 120°F
Operation Humidity		0% to 90% (non-condensing)
Power Supply		24VAC (requires separate Class 2 power)
BMS Communicatio	n	BACnet MS/TP
	Analog Output	1, 0-10VDC
Augustian 1/0	Digital Output	4
Auxiliary I/O	Analog Input	1, 0-10VDC or 4-20mA (configurable)
	Digital Input	1

PRODUCT IMAGE:



BACRC-T-P01 BACRC-TH-P01



BACRC-THO-P01 BACRC-THOC-P01

FEATURES:

The Adaptive Touch Controllers (ATC) are available with four different built-in sensor combinations including temperature, humidity, carbon dioxide • and occupancy sensor. The ATC sensor configurations are listed:

Part Number	Model
BACRC-T-P01	ATC with Temperature Sensor
BACRC-TH-P01	ATC with Temperature/Humidity Sensor
BACRC-THO-P01	ATC with Temperature/Humidity/Occupancy Sensor
BACRC-THOC-P01	ATC with Temperature/Humidity/Occupancy/CO ₂ Sensor

- Color LCD touchscreen •
- Basic indoor unit control and monitoring*: .
 - o On/Off
 - o Mode (Cool, Heat, Fan, Dry, Auto)
 - o Setpoint
 - o Room temperature
 - o Fan speed
 - o Louver position
 - o Alarm status and error code
 - o Dirty filter indicator
 - o Changeover master identification
- Indoor unit control logic:
 - o Auto changeover logic with guard timer
 - o Dual/Single temperature setpoint (°C/ °F)
 - o Setpoint range limitation
 - o Setback setpoints control
 - o Humidity control with setpoint (%)**
 - O CO₂ control with setpoint (ppm)**
 - o Schedule
- o Configurable occupancy sensor logic** •
 - Advanced and configurable inputs and outputs:
 - o Aux heater control: primary/secondary/emergency heat
 - o Interlock through digital and analog outputs: heating stage1, heating stage2, cooling thermo-on, heating thermo-on, fan on/off, unit on/off, alarm status. CO₂ alarm, occupancy sensor, humidifier/dehumidifier control
- Optional integration to a compatible building management system (BMS) using the BACnet MS/TP.
 - o Control and monitor the ATC operation using the various BACnet objects.
 - o Indoor unit operation data BACnet points
- * The ATC can only be set as P1P2 main controller. No sub controller can be connected to the P1P2 network with ATC.
- **Depends on model used

BACNET POINT LIST:

Monitoring Points

#	Value	Description	Туре
1	SPACE_SENSOR	Space Temperature Value Measured By Controller	R
2	REMOTE_CO2_SENSOR	Remote CO ₂ Sensor Value	R
3	REMOTE HUMIDITY	Remote Humidity Sensor Value	R
4	REM_SPACE/DAT_SENSOR	Remote Space Temperature Or Discharge Air Temperature Value	R
5	OUTDOOR AIR	Outside Air Temperature	R
6	SENSOR FAILURE	Sensor Failure Value	R
7	IU SUCTION AIR TEMP	Indoor Unit Return Air Temperature	R
8	COOLING HOURS	Cooling Hours	R
9	HEATING HOURS	Heating Hours	R
10	NUMBER IDU CONNECTED	Number Of Indoor Unit Connected To The Controller	R
11	IDU GAS PIPE TEMP	Indoor Unit Gas Pipe Temperature	R
12	IDU LIQUID PIPE TEMP	Indoor Unit Liquid Pipe Temperature	R
13	IU_FAN_HOURS	Indoor Unit Fan Operation Time	R
14	ODU_FAN_STEP	Outdoor Unit Fan Step	R
15	IU_OPERATING_HOURS	Indoor Unit Operation Hours	R
16	IU_ENERGIZED_HOURS	Indoor Unit Energized Hours	R
17	IU_FAN_SPEED_RPM	Indoor Unit Fan Speed RPM	R
18	IU_EV_OPEN_PULSE	Indoor Unit EEV Pulses	R
19	OU_TH1_OAT	Outdoor Unit TH1 Value	R
20	OU_TH2_HEAT_EXCHANGER	Outdoor Unit TH2 Heat Exchanger	R
21	OU_TH3_DAT	Outdoor Unit TH3	R
22	OU_TH4	Outdoor Unit TH4	R
23	OU_TH5	Outdoor Unit TH5	R
24	OU_TH6	Outdoor Unit TH6	R
25	OU_EV1	Outdoor Unit EEV Pulses	R
26	OU_COMP_SPEED_RPM	Outdoor Unit Compressor Speed	R
27	OU_OPERATION_HOURS	Outdoor Unit Operation Hours	R
28	IU_TH4_DISCHARGE_AIR_TEMP	Indoor Unit Discharge Air Temperature	R
29	OU_FAN1_HOURS	Outdoor Unit Fan 1 Hours	R
30	OU_FAN2_HOURS	Outdoor Unit Fan 2 Hours	R
31	OU_COMP1_HOURS	Outdoor Unit Compressor 1 Hours	R
32	OU_COMP2_HOURS	Outdoor Unit Compressor 2 Hours	R
33	AUX_TOTAL_HOURS	Auxiliary Heat Total Hours	R
34	HEAT_TOTAL_HOURS	Heating Total Hours	R
35	COOL_TOTAL_HOURS	Cooling Total Hours	R
36	ALARM_ON-OFF_ECON	Configurable Point (Alarm Or Motion Sensor Or Econ)	R
37	SYSTEM_FORCED_OFF	System Forced Off (T1-T2)	R
38	ALARM_STATUS	Alarm Status	R
39	FILTER_SIGN_STATUS	Filter Sign Status	R
40	IU_COOLING_THERMO_ON	Indoor Unit Cooling Thermo On	R
41	IU_HEATING_THERMO_ON	Indoor Unit Heating Thermo On	R
42	COMMUNICATION_STATUS	Indoor Unit Communication Status	R
43	TIMED OVERRIDE STATUS	Override Status	R
44	IU_FAN_STATUS	Indoor Unit Fan Status	R
45	AUX_HEATER_STATUS	Aux Heater Status	R
46	EMEREGENCY_HEATER_STATUS	Emergency Heater Status	R
47	IU_VRV_CENTRAL_CONTROLLER	Central Controller Connection Status	R
48	IU_THERMO-ON_STATUS	Indoor Unit Thermo-On	R
49	DEHUM_MODE	Dehumidification Mode	R
50	HUMIDIFICATION_MODE	Humidification Mode	R

#	Value	Description	Туре
51	AUX_HEAT_STG_1	Aux Heat Stg 1	R
52	AUX_HEAT_STG_2	Aux Heat Stg 2	R
53	ADPTR AUX Heat Status	Indoor Unit Aux Heat Status	R
54	CALL_FOR_DEHUM	Dehumidification Call	R
55	AUXH_EMERGENCY_OPERATION	Aux Heater Emergency Heater Operation	R
56	DEFROST_OIL_RETURN_MODE	Defrost Oil Return Mode Value	R
57	ECONOMIZER_MODE	Economizer Mode	R
58	TIMED_OVERRIDE_OPERATION	Time Override Operation	R
59	MOTION	Motion Sensor Value	R
60	MOTION_SENSOR_OUT	Motion Sensor Output	R
61	DIGITAL_OUTPUT_1_STATUS	Digital Output 1 Status Value	R
62	DIGITAL_OUTPUT_2_STATUS	Digital Output 2 Status Value	R
63	DIGITAL_OUTPUT_3_STATUS	Digital Output 3 Status Value	R
64	DIGITAL_OUTPUT_4_STATUS	Digital Output 4 Status Value	R
65	IU_CAUTION_1	Indoor Unit Caution	R
66	IU_WARNING	Indoor Unit Warning	R
67	IU_ERROR	Indoor Unit Error	R
68	ALARM_CONTACT	Alarm Contact Status	R
69	IU_DRAIN_PUMP_MP	Indoor Unit Drain Pump Status	R
70	IU_HUMIDIFIER	Indoor Unit Humidifier Status	R
71	IU_ANTIFREEZING_TBF	Indoor Unit Antifreeze Operation Status	R
72	IU_FLOAT	Indoor Unit Float Status	R
73	IU_RC Fan Prohibit	Indoor Unit Fan Speed Change Prohibit	R
74	On Prohibit	Indoor Unit On Prohibit	R
75	IU_TEST_RUN	Indoor Unit Test Run Operation	R
76	TEST_OPERATION	Test Operation Status	R
77	OU_TEST_RUN	Outdoor Unit Test Run Operation	R
78	Backup Operation	Outdoor Unit Backup Operation	R
79	IU_RC_LouverProhibit	Indoor Unit Louver Prohibit	R
80	IU_CHANGEOVER_OPTION	Indoor Unit Master Status	R
81	OU_SV1	Outdoor Unit SV1 Value	R
82	FORCED_THERMO_OFF_STATUS	Forced Thermo Off Status Value	R
83	FORCED_STPT_SHIFT	Indoor Unit Setpoint Shift	R
84	OU OP MODE ACTUAL DISP	Outdoor Unit Actual Mode	R

Control Points

#	Value	Description	Туре
1	AUX_HEAT	Auxiliary Heat Output (Modulating)	W
2	CO2_DAMPER	CO₂ Damper Outoput (Modulating)	W
3	HUMIDIFIER_DEHUMIDIFIER	Humidifier Or Dehumidifier Output (Modulating)	W
4	IU_W_CONTROL_TEMP	Control Temperature Used By The Controller	W
5	UI_COOL_STPT	Active Cooling Setpoint	W
6	UI_HEAT_STPT	Active Heating Setpoint	W
7	OCC_COOLING_STPT	Occupied Cooling Setpoint	W
8	OCC_HEATING_STPT	Occupied Heating Setpoint	W
9	UNOCC_COOLING_STPT	Unoccupied Cooling Setpoint	W
10	UNOCC_HEATING_STPT	Unoccupied Heating Setpoint	W
11	MIN_COOLING_STPT	Minimum Cooling Setpoint	W
12	MAX_COOLING_STPT	Maximum Cooling Setpoint	W
13	MIN_HEATING_STPT	Minimum Heating Setpoint	W
14	MAX_HEATING_STPT	Maximum Heating Setpoint	W
15	AUX_H_CONFIG_OAT_STPT	Outside Air Temperature Setpoint For Aux Heat Logic	W
16	AUXH_PROP	Aux Heat Control Proportional	W
17	AUXH_INTG	Aux Heat Control Integral	W
18	DEHUM_STPT	Dehumidification Setpoint	W
19	HUM_HYSTERESIS	Hysteresis Used For Humidity Control	W
20	DEHUM_PROP	Dehumidification Control Proportional	W
21	DEHUM_INTG	Dehumidification Control Integral	W
22	HUM_PROP	Humidification Control Proportional	W
23	HUM_INTG	Humidification Control Integral	W
24	SPACE_HUM	Space Humidity Value	W
25	HUMIDITY_STPT	Humidification Setpoint	W
26	CO2_STPT	CO ₂ Control Setpoint	W
27	CO2_DIFFERENTIAL	CO₂ Control Differential	W
28	CO2_MINIMUM_POSITION	CO ₂ Damper Minimum Position For Occupied Mode	W
29	CO2_MAXIMUM_POSITION	CO ₂ Damper Maximum Position For Occupied Mode	W
30	CO2_UNOCCUPIED_POSITION	CO₂ Damper Unoccupied Position	W
31	CO2_TIME_DELAY	Time Delay For CO₂ Control (Minutes)	W
32	CO2_PROP	CO ₂ Control Proportional	W
33	CO2_INTG	CO ₂ Control Integral	W
34	SPACE_CO2	Space CO ₂ Value	W
35	MOTION_UNOCC_DELAY	Time To Set To Unit To Unoccupied When No Motion Is Detected	W
36	OCCUPANCY_RELAX_MAXIMUM	Maximum Setpoint Relax When No Motion Is Detected	W
37	DEMAND_SETPOINT_RELAX_CLG	Cooling Setpoint Relaxation Value During Demand Limit	W
38	DEMAND_SETPOINT_RELAX_HTG	Heating Setpoint Relaxation Value During Demand Limit	W
39	DEMAND_RECOVERY_STEP_TIME	Demand Recovery Step Time Minutes	W
40	ECONOMIZER_TIMER	Economizer Timer	W
41	COOL_MODE_TEMP_OFFSET	Cool Mode Temp Offset Value	W
42	HEAT_MODE_TEMP_OFFSET	Heat Mode Temp Offset Value	W
43	OUTDOOR_TEMP	Outdoor Temp	W
44	DISCHARGE_AIR_TEMP	Discharge Air Temp	W
45	STAGE_DELAY	Stage Delay For Aux Heat	W
46	FILTER_SIGN_RESET	Filter Sign Reset	W
47	HUMIDITY_CONTROL_ALWAYS	Enable Humidity Control During Unoccupied Mode	W
48	HUM_OVRRIDE	Turn On Humidity Control During Override	W
49	REMOTE_HUMIDITY_SENSOR	Enable Remote Humidity Sensor	W
50	HUMIDIFY_DURING_HEAT	Allow Humidity Control During Heat	W
51	OCCUPIED_MODE	Occupied Mode	W

#	Value	Description	Type
52	ENABLE LOCAL SCHED	Enabled Local Schedule	W
53	STPT HOLD	Hold Enable	W
54	STPT_TRACKING	Setpoint Tracking Mode	W
55	DAT SENSOR	Enables Remote Discharge Air Temperature	W
56	DEHUM WOUT FAN	Dehumidification Without Fan	W
57	OAT SENSOR	Enable Outside Air Sensor	W
58	HUMIDIFY WOUT FAN	Humidify Without Fan	W
59	ENABLE REMOTE CO2 SENSOR	Enable Remote CO ₂ Sensor Monitoring	W
60	DEHUM OVERCOOL STATUS	Overcooling To Dehumidify	W
61	SPEED UP	Speed Up Timers	W
62	RC PROHIBIT MODE OPERATION	Remote Controller Prohibit Mode Operation	W
63	REMOTE CONTROLLER PROHIBIT STPT	Remote Controller Prohibit Setpoint	W
64	ENABLE DEMAND CONTROL	Enables Demand Control	W
65	CO2 VENT ENABLE	Enable CO₂ Control	W
66	CONTINUOUS AUX FAN	Enable Fan Operation During Aux Heat	W
67	FORCE FAN	External Forced Fan Input	W
68	CALL FOR HUMIDIFICATION	Humidification Call	W
69	HUMIDIFIER OUT	Humidifier Output Status	W
70	ECONOMIZER	Economizer Status	W
71	CO2 ALARM OUT	CO₂Alarm Status	W
72	DEHUMIDIFIER OUT	Dehumidification Output Status	W
73	ENERGY SAVINGS ICON	Energy Saving Icon Status	W
74	AUX HEAT FAN	Check For Fan Before Running Aux Heat	W
75	Humidity Display Enable	Enable Humidity Display	W
76	CO2 Display Enable	Enable CO ₂ Display	W
77	OAT Display Enable	Enable Outside Air Sensor Display	W
78	OPERATION MODE	Controller Operation Mode	W
79	AUX HEAT CONFIGURATION	Aux Heat Configuration Setting	W
80	OVER COOL FAN SPEED	Overcool Mode Fan Speed	W
81	FAN MODE	Fan Speed	W
82	SCHEDULE OCC MODE	Occupancy Mode To Be During Start Of Schedule	W
83	ROOM TEMP CALCULATION	Room Temperature Calculation Logic	W
84	PRI CHANGEOVER DEADBAND	Primary Changeover Deadband	W
85	SEC CHANGEOVER DEADBAND	Second Changeover Deadband	W
86	GUARD TIME	Autochangeover Gaurdtimer Value	W
87	MIN STPT DIFFERENTIAL	Minimum Setpoint Differential Value	W
88	TIMED OVERRIDE MINUTES	Timed Override Minutes	W
89	COOLING_UNOCC_RECOVERY	Cooling Unoccupied Recovery Setpoint	W
90	HEATING UNOCC RECOVERY	Heating Unoccupied Recovery Setpoint	W
91	DEMAND_CONTROL	Demand Control	W
92	OCCUPANCY_SENSOR_LOGIC	Occupancy Sensor Logic	W
93	OCCUPANCY_RELAX_TIME_DELAY	Occupancy Sensor Setpoint Relax Time Delay	W
94	IU_LOUVER_2_POSITION	Indoor Unit Louver 2 Position	W
95	INPUT_6_CONFIGURATION	Binary Input 6 Configuration	W
96	CO2_DAMPER_SELECTION	CO₂ Damper Type Selection	W
97	IU_W_AIRFLOW_DIRECTION	Indoor Unit Louver Direction	W
98	DO-1_SETTING	Do 1 Setting Value	W
99	DO-2_SETTING	Do 2 Setting Value	W
100	DO-3_SETTING	Do 3 Setting Value	W
101	DO-4_SETTING	Do 4 Setting Value	W
102	DEHUMIDIFICATION	Dehumidification Control Type	W
103	HUMIDIFICATION	Humidification Control Type	W
104	EXTERNAL_DEHUM_CONTROL	External Dehumidification Control Type	W
105	OVERCOOL_OPTION	Overcool Degree	W

DIMENSIONS:





2.5 AZAI6WSCDKA DKN Cloud Wi-Fi Adaptor

MODEL COMPATIBILITY:

Compatible with *VRV* indoor unit models: FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXMQ_MF, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ, CXTQ

Compatible with SkyAir indoor unit models: FAQ, FBQ, FCQ, FHQ, FTQ

Compatible with Single Zone/Multi Zone/SkyAir system indoor unit models: FDMQ, FFQ

Backwards compatible with indoor unit models that communicate via the P1P2 protocol

SPECIFICATIONS:

Model		AZAI6WSCDKA
Description		DKN Cloud Wi-Fi Adaptor for VRV (P1P2)
Maximum Indoor Un	its	16 indoor units in one remote controller group
Total Wiring Length		6ft (2m)
Dimensions		3.6 in x 3.15 in x 1.15 in (92mm x 80mm x 29 mm)
Weight		0.28lbs (130 g)
Communication Pro	tocol	P1P2
Storage Temperatur	e	-4°F to 158°F (-20 °C to 70 °C)
Operation Temperat	ure	32°F to 122°F (0 °C to 50 °C)
Operation Humidity		5% to 90% (non-condensing)
	Connection	WiFi-Certificated network 802.11b/g/n (802.11n up to 150 Mbps) Daikin's Bluetooth furnace: v4.2 BR/EDR and BLE specification
Communication	Communication Frequency	2.4GHz
Max Antenna powe		20 dBm
	Sensitivity	-97 dBm
	IP Addressing	Static DHCP
Modbus RS485 com	munication baud rate	19200 bps
	Туре	Vdc
Power Supply	Voltage	12 – 16V
indoor unit PCB)	max current	85 mA
	max Power	1360 mW

PRODUCT IMAGE:

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FEATURES:

- A wired remote controller is optional to connect to the indoor unit together with the Wi-Fi adaptor.
- The DKN Cloud Wi-Fi adaptor is capable of controlling a group of up to 16 indoor units
- The Wi-Fi adaptor wiring consists of a non-polar two-wire connection to the indoor unit at terminals P1/P2 and a connection to the indoor unit power supply connector X18A or X35A (16VDC).
 - o Wiring harness provided with Wi-Fi adapter
- The DKN Cloud Wi-Fi adaptor enables the control of P1P2 indoor units through an iOS or Android smartphone app:
 - o Monitor and/or control the indoor units:
 - On/Off
 - Mode Cool, Heat, Auto*, Dry and Fan
 - Room temperature
 - Sensed by the remote controller or indoor unit return air sensor (depends on indoor unit model)
 - Setpoint
 - Fan speed
 - Error code
 - Next scheduled event
 - o Capable of setting a 7 day schedule for each indoor unit group
 - o Capable of editing unit name and icon, and grouping units
 - o Capable of managing users with Basic and Advanced authority
 - o Capable of displaying different languages: English, Spanish and French
 - o Capable of selecting temperature units °F/°C
 - Open API document is available for cloud to cloud integration
- Modbus Integration
 - o The following points are available through Modbus:

No.	Point Name	Read Only/Writable
1	Unit on/off	Writable
2	Setpoint	Writable
3	Room temperature	Writable
4	Mode Auto/Cool/Heat/Fan/Dry	Writable
5	Fan speed	Writable
6	Louver position	Writable
7	Error code	Read only

*Applicable to indoor units that connect to VRV Heat Recovery outdoor units only.

DIMENSIONS:



MOUNTING:

CONNECTION:

The Wi-Fi adaptor shall be mounted onto a flat surface either through screws or double-sided adhesive tape provided with the Wi-Fi adapter





Screw attachment

Double-sided adhesive attachment



*For FTQ_P and FXTQ_P, use the X9A connector on the A2P PCB

ADAPTOR COMPATIBILITY:

This adaptor is not compatible with the following adaptors:

- KRP4A71, KRP4A72, KRP4A73, KRP4A74
- DTA104A53, DTA104A61, DTA104A62
- DTA116A51 if powered by the indoor unit PCB

2.6 AZAI6WSPDKC DKN Plus Interface

MODEL COMPATIBILITY:

Compatible with the following indoor units:

Indoor Unit Family	Model Number	
VRV and VRV Life	CXTQ, FXAQ, FXDQ, FXEQ, FXFQ, FXHQ, FXLQ, FXMQ, FXNQ, FXSQ, FXTQ, FXUQ, FXZQ	P1P2
SkyAir	FAQ, FBQ, FTQ, FCQ, FHQ	P1P2
Cinale Zana and Multi Zana	FDMQ, FFQ	P1P2
Single-Zone and Multi-Zone	CDXS, CTXS, FDXS, FTK, FTX, FTXG, FTXR, FTXS, FVXS	S21

The following indoor units do not have the S21 connection and require an additional interface adaptor (ordered separately) to provide the S21 connect for the adaptor:

Indoor Unit Models	Required Interface Adaptor
FTX09NMVJU, FTX12NMVJU, FTK09NMVJU, FTK12NMVJU	KRP067A41E
FTX15NMVJU, FTX18NMVJU, FTX24NMVJU, FTK18NMVJU, FTK24NMVJU	KRP980B2E

SPECIFICATIONS:

Model		AZAI6WSPDKC	
Description		DKN Plus Interface	
Maximum connections		1 S21 indoor units / 16 P1P2 indoor units	
	P1P2/S21 communication and power wire	7.7ft / 2.35m (included)	
Wiring	S21 wire adaptor	0.5ft / 0.15m (included)	
	P1P2 wire adaptor	0.5ft / 0.15m (included)	
Modbus RS485 communication baud rate		19200 bps	
BACnet MS/TP communication baud rate		9600/19200/38400 bps (Default: 38400)	
Daman annah i	For DKN Plus Interface	12-16VDC from indoor unit PCB	
Power supply	For 3 rd party thermostat	24VAC from external power supply	
Dimensions		3.62 in x 3.15 in x 1.14 in / 92mm x 80 mm x 29 mm	
Weight		3.24 oz / 92g	
Storage temperatu	re	-4°F to 158°F	
Operation temperature		32°F to 113°F	
Compliance		EMC with the standard 47 CFR Part 15B (US) EMC with ICES-003 Issue6 standard (Canada)	

PRODUCT IMAGE:



FEATURES:

•

- Versatile interface that can integrate with a third-party thermostat through multiple approaches:
 - o Cloud API
 - o Modbus
 - o BACnet MS/TP
 - o Thermostat G/Y/W Relay Control: Fan, Cool, Heat
 - Advanced control logic to maximize indoor unit efficiency
 - Automatically disables thermostat relay logic when cloud API connection detected
 - Easy commissioning with Daikin's Bluetooth furnace configuration app
- Indoor unit control and monitoring points*
 - o On/Off
 - o Setpoint
 - o Room temperature
 - o Mode (Auto, Cool, Heat, Fan, Dry)
 - o Fan speed
 - o Louver position
 - o Error code
 - o Interlock control with indoor unit On/Off Dry Contact
- Aux Heater Control
- Modbus and BACnet MS/TP Integration
 - o The following points are available through Modbus or BACnet MS/TP:

No.	Point Name	Read Only/Writable
1	Unit on/off	Writable
2	Setpoint	Writable
3	Room temperature	Writable
4	Mode Auto/Cool/Heat/Fan/Dry	Writable
5	Fan speed	Writable
6	Louver position	Writable
7	Error code	Read only

* For integration through cloud, Modbus, and BACnet MS/TP only

SYSTEM DIAGRAM:

• For S21 indoor units:



• For P1P2 indoor units:



WIRING DIAGRAM:

• Connects to P1P2 indoor unit



• Connects to S21 indoor unit



DIMENSIONS:



2.7 BRC4C / 7E / 082A Wireless Remote Controller / Receiver BRC4C82



C: 3D007898B

BRC7E83



BRC7E818


BRC082A42W / BRC082A42S

Unit : in.



BRC082A41W

Unit : in.



2.8 DCS302C71 Central Remote Controller

CENTRAL REMOTE CONTROLLER	
REF ZONE MONTOR ALL ZONE	
84	FRESH UP

- You can connect up to 64 groups of indoor units (max. 128 units); lets you operate or monitor ON/OFF, temperature setting, etc., by zone individually or together.
- Up to 2 units are connectable within 1 system (Up to 4 units in case of the double central control mode)
- Executes zone control for up to 64 zones and is designed for operation efficiency.
- Error contents are displayed in code; maintenance and inspections can be quickly carried out.
- Applicable wiring methods include bus and star in addition to series wiring

2.8.1 System Configuration System Outline



System Configuration (Group / Area Control)

Group control



Remote controller for indoor unit

- The group means the indoor units connected by the same control wiring for remote controller (connected to terminal P1 and P2) and all the unit in group have "the same setting" and "the same operation".
- The indoor units in the group are controlled by the remote controller for indoor unit.
- The number of indoor units in one group is up to 16 units.

Area control



- The Area means the indoor units connected by the same control wiring for central remote controller (connected to terminal F1 and F2) and all the unit in area have "the same setting".
- The Area control of the indoor unit is operated by the central remote controller.
- From 1 up to 64 areas can be controlled by the central remote controller.
- The number of groups you can set in one area is from 1 up to 64 groups.
- Up to 16 units can be set in one group, and up to 64 groups (up to 128 units) can be connected.

System Configuration (Control by 2 central remote controllers)

- Up to 128 indoor units can be connected in one system.
- 2 or 4 central remote controllers are required. It is possible to control the same unit from 2 locations.

Note:

- 1. Electrical power should be supplied to each central remote controller. (Single phase 100~240 V)
- 2. When you control by 2 central remote controllers, be sure to set SS3 by the initial setting.



When you control by 2 central remote controllers. (Last command priority) Note:

The operation code setting cannot be made by the sub side. Be sure to set by the main side.

2.8.2 Specifications

	DCS302C71
Power supply voltage / frequency	AC100~240 V ±10% 50/60 Hz
Power consumption	Max. 8 W
Setting data backup	Non-volatile memory (Data preserved semi-permanently)
Effects of instantaneous power failure	No effect for 20 mili-sec. or less
Forced OFF input Operation on the local side cannot be carried out during forced OFF input.	 No-voltage normal open contact Micro-current contact capable of handling 16VDC and approx. 10 mA. Max. 492 ft cable length
Operating ambient temperature /humidity condition	-5~40°C, 95% RH or less (no condensation)
Size (width × height × depth)	7 1/8×4 3/4×2 9/16 exposed portion of front panel: 5/8 (Unit: Inch)
Machine Weight (Mass)	Approx. 0.95 lbs

2.8.3 Dimensions

Unit : in.



7 1/8

CENTRAL REMOTE CONTROLLER



C: 3D043353

2.8.4 Names and Functions of Operating Part Display part DISPLAY (OPERATION MODE) Displays operating state.



"fixed" or "swing" cannot be done "individual screen' CONTROL MODE BUTTON VENTILATION MODE BUTTON Selects control mode This is pressed to switch the ZONE SET ventilation mode of the total FILTER SIGN RESET BUTTON CODE No. .<u>∖</u>-||\$⊡ ۲¥ + ŧ enthalpy heat exchanger. SELECT (F) No. This button is pressed to erase the "clean filter" display after cleaning or VENTILATION STRENGTH WE VNE ⊞ ŧ **\$\$** SET replacement ADJUSTMENT BUTTON RESET RESET -This button is pressed to switch the SET BUTTON ventilation strength ("fresh up") of Б Б the total enthalpy heat exchanger Sets control mode and time No. INSPECTION/TEST RUN BUTTON FAN STRENGTH ADJUSTMENT (FOR SERVICE) BUTTON ARROW KEY BUTTON ZONE SETTING BUTTON TEMPERATURE Pressing this button scrolls through Pressing this button scrolls through ADJUSTMENT BUTTON This button is pressed Zone registration mode can "inspection", "test run", and "system display". This button is not "weak", "strong", and "fast". (ZONE NUMBER BUTTON) be turned on and off by when calling an individual pressing the start and stop This button is pressed when indoor unit or a zone normally used buttons simultaneously for at setting the temperature. Select the zone number if any zones least four seconds

have been registered

2.8.5 Description of Functions

Individual Screen, all Screen, Zone Screen

- This controller can perform operations in the individual screen, all screen, or zone screen.
- Individual screen
 - The individual screen is used when performing group operations.
- All screen
 - The all screen is used when performing operations for all units at once.
- Zone screen

The zone screen is used when performing zone operations.

Basic Functions

	Descriptions of outline	
Individual/Zone control	Up to 64 groups (Max. 128 units and max. 16 units per group) of indoor units and HRV units can be controlled by individually or by zone.	
Unified ON/OFF	ON/OFF can be set for each zone, and can be controlled simultaneously for entire system by push button or by contact signal from outside.	
Malfunction code display	The status of each group is always displayed, such as ON/OFF, error, etc. If the error occurs, it displays the contents of error by malfunction code through the self-diagnosis function.	
Connection of unification adaptor for computerized control	By connecting the unification adaptor for computerized control (option), it can be linked with the central monitoring panel and etc. by contact signal, which enables you to operate ON/OFF simultaneously or monitor the operating status.	
Remote control acceptance/rejection	It is possible to restrict the function of local remote controller. (Only ON operation rejection, or ON/OFF operation rejection)	
2 central controllers	By connecting two central remote controllers, the same air-conditioner can be controlled from 2 locations (By tenant or administration office.)	

Zone Control Functions

	Descriptions of outline
Zone control	The zone function is a function to control one or more group of air-conditioner, and the operation setting such as ON/OFF etc. can be made by zone.
Up to 64 zones	Up to 64 zones (64 groups for each zone) can be set. However, the group setting spreading over the plural zone cannot be set.
Zone register	When the power is supplied first time, each group is registered in each respective zone. If you can simply register the several groups in the same zone by switch, so that you can have simultaneous operation of the units in that zone immediately. (The operation of temperature setting and etc. is also controlled by zone simultaneously.)
Zone setting	By adding the zone setting function (Zone "0") from the central remote controller, you can set the same setting for all the zone registered by single operation.
ON/OFF control of zone	For example, if there are three groups in one room and if you register these three groups as one zone, you can operate these three groups simultaneously by single operation (ON/OFF, temperature setting etc.). You still can operate each group individually by local remote controller.
Maintaining zone setting	Even if the power is turned off, the zone configurations set are maintained semi-permanently. (saved in non-volatile memory)
Cool/Heat changeover by zone	The cool/heat changeover can be made by zone. However, it is required to have a master group for Cool/ Heat changeover in that zone.
Batch operation	The same setup is possible at one operation to all the groups registered on the "All" screen.
No local remote controller	Even if there is no local remote controller, you can still perform the same operation. There is no problem even if no remote controller is connected. (However, in this case, each one air-conditioner consists of one group.)
Connection to central monitoring panel	You can also combine with an Interface for use in BACnet and a data station in order to connect to the central monitoring panel. A parallel interface can also be connected.

Cool/Heat Changeover and Eligibility Setting

	Descriptions of outline	
Possible control The operation mode of the outdoor unit can be changed by the local remote controller or by the remote controller. (For test operation, change setting of cool/heat selector switch of the outdoor		
Remote controller acceptance/rejection You can set the remote controller acceptance/rejection on the central remote controller by the local remote		
"NOT AVAILABLE" DISPLAY (NO FUNCTION DISPLAY)	If a function is not available in the indoor unit even if the button is pressed, "NOT AVAILABLE" is may be displayed for a few seconds.	

Note:

Refer to the next page for the selection of cool/heat mode (eligibility for cool/heat changeover).

Cool/heat Selection Eligibility Setting by Remote Controller for Indoor Unit

The outdoor unit of can freely be selected the operation mode (fan, dry, auto [Heat Recovery only], cooling or heating) by the remote controller for indoor unit. However, you have to set the selection eligibility for fan, dry, cooling and heating operation on the one of the remote controller out of the indoor units connected to the outdoor unit. For Heat Recovery series and the function unit (for heat recovery), if 2 or more indoor units are connected to one Branch Selector unit, you have set the selection eligibility for fan, dry, auto, cooling and heating operation on the one of the remote controller out of the remote controller out of the selector unit, you have set the selector eligibility for fan, dry, auto, cooling and heating operation on the one of the remote controller out of the indoor units connected to the Branch Selector unit.

(Only remote controller having the selection eligibility can change the operation mode.)



Setting method of the selection eligibility for cool/heat

- 1. Preparation
- When turning on the power first time, "CHANGEOVER UNDER CONTROL" sign blinks.

When you set;

Continue to push Operation switch for about 4 seconds. 🔄 📩 sign blinks on all the indoor units connected to the outdoor unit or Branch Selector unit.



2. Selection Eligibility Setting

Push Operation switch of the remote controller, which you want to set the selection eligibility. This completes the setting procedure. Cool/heat selection eligibility is set for that remote controller, and sign goes off.

still blinks on all other remote controllers.

3. Operation mode changeover

Push Operation switch of remote controller having the selection eligibility (The remote controller not displaying sign) several times to select the desired operation mode. [Fan], [Dry], [Auto](only for Heat Recovery series), [Cooling] and [Heating] mode are selected each time you push the [Operation switch]. Operation mode of other remote controllers, which has no selection eligibility, is also switched automatically.

Description of operation and its function



* It is also possible to set the selection eligibility on the wireless remote controller. It does not possible to set the "Dry" by the Central Remote Controller.

Control with Two Central Remote Controllers

The central remote control equipment is newly designed to "B" type, which has been added with a new control function for 2 central remote controllers. However, be sure that the relation between Main/Sub of the central remote controller is different from those of local remote controllers.



Note:

Be sure that if timer No. is registered by the sub central remote controller, [Timer mode acceptance for local remote controller (mode no. 8,9,18, and 19)] for the same units set by the Main remote controller becomes meaningless (operates when time comes.).

Explanation of the above figure

If you operate the central remote controller in the sequence of 0 and 2, the indoor unit is set for cooling / temperature setting 75°F. However, the display of zone setting of the master remote controller remains at heating / temperature setting at 80°F.

Cautions

- Operation code cannot be set by the sub central remote controller.
- Combined zone operation can only be set by zone registration of the main central remote controller.
- Both main and sub central remote controller are operated by a Last priority command for the functions other than the above.
- However, the display on the central remote controller cannot be changed by each other. (On the display for the group, you can monitor the present operation status.)

2.8.6 Wiring Instructions

Wiring instructions

For control wiring of DIII-NET, you can select from the following 3 types of wiring methods.

1. Series method

Wiring is connected by a single line from the central controller.



2. Bus method

Up to 16 branches is possible. Never diverge the sub-branches from the branch line.



3. Star method

Up to 16 branches is possible. Never diverge the sub-branches from the branch line.



Specifications of Transmission Wiring

Be sure to use either 2-core sheathed vinyl cord or cable as mentioned below. The size of wire should be selected in the range of AWG 18 or AWG 16.

Length of control wiring

Between central remote controller and air-conditioner Maximum extension : 3280 ft, Total length : 6560 ft (*1)

Note:

*1. When you have branches, be sure to make a total length of all the branch.

2.8.7 Instructions for Initial Setting

Group No. Setting for Central Control Equipment

Group No. should be set for each group by the remote controller for indoor unit, when you operate the system with central remote controller. (For the same control group, set only one of the unit.)

For setting group No. of Energy recovery ventilator and wiring adaptor for other air conditioners, etc., refer to the instruction manual.

Remote controller for indoor unit

Group Address (Unit)



Group Address (Group)



2.9 DCM601A71 intelligent Touch Manager

2.9.1 Feature

The intelligent Touch Manager (iTM) is an advanced multi-zone controller that controls and monitors the Daikin *VRV* system. The iTM can also provide a cost-effective mini Building Management System (BMS) solution to integrate and control third-party devices through optional software and hardware. If a BMS already exists, the iTM can be used as a BACnet gateway interface for BMS integration with iTM BACnet Server Gateway Option.



Easy Operation and Configuration

- Intuitive user interface with 10.4" LCD touch screen
- Flexible screen views includes the icon view, list view and layout view for system configurations
- · Easy engineering with use of the Preset Tool and USB port

Advanced Control Logic

- Independent Cool and Heat setpoints or Single setpoint in the occupied period
- Independent Setback setpoints in the unoccupied period
- Weekly Schedule with Optimum Start and Timed Override
- · Auto Changeover with configurable methods

Facility Management and Billing

- Remote Web access
- Automatic Error and Alert emails
- Tenant Billing with the iTM PPD option

Mini BMS Solution with Software and Hardware Options

- Interlock and Emergency Stop for facility management
- DI, DO, AI, AO points integrated via the WAGO I/O System
- BACnet points (AI, AO, AV. BI, BO. BV, MSI, MSO, MSV) integrated with the iTM BACnet Client Option

BACnet Server Gateway Option

- Direct connection to the VRV system using the iTM as a gateway
- Individual device ID assigned to each indoor unit group and outdoor unit
- Seamless control logic integration between the iTM and BMS
- Greatly reduces the need for BMS integrator programming

Built-in Service Tool with Remote Access

- Operation data are stored in the iTM for the last 5 days:
- Indoor unit and outdoor unit operation data
- BACnet Client objects
- WAGO I/O system data
- · Operation data can be exported through a USB drive or through the iTM web browser remotely

• BMS can monitor the BACnet objects of indoor unit and outdoor unit operation data with the BACnet Server Gateway Option activated

2.9.2 System Overview

- iTM is an advanced central controller operated by using a 10.4" touch panel. It allows you to easily monitor as well as operate air conditioners and generic equipment connected to the iTM from the touch panel.
- One iTM can monitor and control a maximum of 64 groups of indoor units (128 units), including Ventilator. The iTM can be expanded with up to a maximum of 7 iTM plus adaptors, which similarly to the iTM, can connect a maximum of 64 groups of indoor units (128 units); that is, with one iTM you can control and monitor a maximum of 512 groups of indoor units (1024 units). A group of indoor units refers to the following:



- The iTM allows you to define privileges for Users and Managers, so that you can set up and manage them according to their respective privileges. Furthermore, by connecting the iTM with computers in a LAN, you can set up Web Remote Management and allow a maximum of 4 managers and 16 users to simultaneously access the iTM, and if a connection to the Internet is available, then, you can monitor and operate the iTM remotely, via the Internet.
- The iTM allows you to schedule the operation of each air conditioner in detail.

You can set up an annual schedule by setting up a schedule by the day of the week and defining Special Days such as extra holidays.

Changes by the season are achieved by setting up a validity period to programs.

- By using optional functions, you can display the floor plan of individual buildings and the like as background on the iTM monitoring screen, and monitor and operate by viewing the actual layout of the air conditioners.
- You can use Interlocking Control to start/stop air conditioners in conjunction with other equipment or Setback function to save energy.
- You can use Power Proportional Distribution function (option software) to distribute the electric bill among tenants.
- By connecting a USB memory to the iTM, you can output billing data, budget/actual energy consumption data, function settings, history data, etc. to a CSV file.

- NOTE

• Periodical data saving is recommended in order to prevent loss of your important data due to an accidental problem.

2.9.3 System Configuration



EM11A017F

2.9.4 Specification

Model		DCM601A71	
Power supply		AC 24 V, 60 Hz	
Power consumption		23 W maximum	
	Surrounding temperature	32 °F to 104 °F	
Operating conditions	Humidity	15% to 85% RH (non condensing)	
Dimensions	H x W x D (inch)	9.57 x 11.42 x 1.97	
Capacity	Max. number of indoor unit	64 addressed indoor unit groups (maximum 128 indoor units)	
Сараску	Max. number of outdoor unit	10	
	F1F2 (Daikin DIII-NET communication)	1	
Interface	100Base-TX (Ethernet communication)	1 (RJ-45)	
Intenace	USB port (for flash memory drive)	1 (2 to 32 GB)	
RS-485 (for iTM Plus Adaptor connect		1 (2-wire polarity sensitive)	
Innut terminale	Di (Digital input for forced shutdown)	1	
	Di/Pi (Digital/Pulse input)*	3	
EMC certification		FCC Part 15 Class B	

* Pulse input from kWh meter requirements: 1 pulse to 1kWh or 10kWh. Pulse width must be between 40-400 msec. Non voltage, normally open semi-conductor type.

2.9.5 Dimension





• Wall mounting metal plate



Frame bracket



Angle bracket



2.9.6 Part Names and Functions Front Panel and Side View



(1) MONITOR

LCD touch panel for monitoring and performing operations.

(2) SERVICE LAN

Service LAN connection port. Unused.

(3) LAN SW

Switch for toggling between the LAN port on the rear and the SERVICE LAN port on the front.

When set to FRONT, you cannot close the cover.

To close the cover, set it to Back. (Be careful not to touch the switch inadvertently.)

(4) BACKUP

Power ON/OFF switch for settings backup battery. (Be careful not to touch the switch inadvertently.)

(5) DIII MASTER

Switch for setting up the MASTER and SLAVE when there are two or more DIII-NET central control devices such as the intelligent Touch Manager.

(6) CPU ALIVE (Green)

This LED flashes when the CPU is operating normally.

If it is not flashing, an operational error occurred in the CPU. (It takes about 10 seconds to determine the cause of an error.)

On: Software error

Off: Hardware error, power-off

(7) LAN LINK (Green)

This LED indicates whether the LAN connection between the intelligent Touch Manager and the connected hardware is correct. The LED is On when the connection is correct.

(8) DIII MONITOR (Yellow)

This LED flashes when data transmission occurs on the DIII-NET communication line.

(9) MONITOR key/LED (Orange/Green)

Press this switch to turn on/off the monitor. Doing so also causes the LED color to change as follows.

Off: Indicates that the power is off.

On (Orange): Indicates that the monitor is on.

On (Green): Indicates that the monitor is on.

(10) RESET//

Restart switch for restarting the intelligent Touch Manager.

(11) USB socket cover (side)

USB memory port.

– NOTE –

Do not use the socket for any purpose other than connecting a USB memory.

2.9.7 Detailed Screen Description Setup Screen Structure

Standard functions

	Icon View		Displays the operational status of areas and indoor units.	
List View		ew	Displays the operational status of areas and indoor units as a lis	
Menu List Screen		List Screen	Displays the list of menu items.	
	-	Schedule	Sets up weekly and annual schedules.	
		Weekly Schedule	Sets up a weekly schedule for each day.	
		Annual Schedule	Sets up schedules for special days, such as extra holidays.	
	-	Timer Extension	Sets up the off-timer to prevent failure to turn off indoor units.	
	-	Auto Changeover	Sets up the automatic change between cool and heat modes.	
	- Emergency Stop - Area - Mgmt. Pts. - Passwords		Sets up the emergency stop at fire alarms.	
			Creates and sets up areas.	
			Creates and sets up management points.	
			Sets up passwords, such as the administrator password.	
- Maintenance - Regional		Maintenance	Places the management points under maintenance.	
		Regional	Changes the date format and unit of temperature to those appropriate for the locale.	
		- Time/DST	Sets the current time and the daylight saving time.	
 Screensaver Hardware Confirmation Dialog Touch Panel Calibration Backup 		Screensaver	Sets up the screensaver.	
		Hardware	Sets up the luminance for the screen and volume for the touch sound.	
		Confirmation Dialog	Enables or disables the display of a confirmation dialog at On/Off.	
		Touch Panel Calibratio	n Corrects the contact points of the touch panel.	
		Backup	Saves iTM data.	
	\vdash	Version Information	Displays version information for the iTM.	
History Setup Export		History	Function for checking and exporting history, such as that of error occurrences.	
		Setup Export	Settings for exporting the entire setup information.	
		Operation Data Export	Operation data export.	

Optional functions



Maker option

Menu List Screen

Displays the list of menu items.

Power Proportional Distribution

Function for distributing power to each tenant.

Standard View (Icon) Screen



(1) Area/Management Point view area

Displays area and management point icons.

(2) Menu List switch button

Switches to the Menu List screen, which consists of Automatic Ctrl., System Settings, Operation Mgmt. and Energy Navigator (optional) tabs.

The button changes to Close while the Menu List screen is being displayed.

(3) Standard View switch button

Switches from the Layout View screen (optional) to the Standard View screen.

(4) Layout View switch button

Switches the screen to the Layout View, which displays icons on a floor plan.

– NOTE -

Displayed only when the Layout View option (see "4-4 Layout View (Optional) Screen") is enabled.

(5) Lock/Unlock button

Locks/Unlocks switching to the Menu List screen.

The button is not displayed when the screen lock is disabled.

(6) Group monitoring icon

A Error detection Reports error when any of the following faults is detected.



Flashing indicator: System error

Text: System error occurred. Touch this icon to check and restore.



Flashing indicator: Unit/Limit Error

Text: Error occurred. Touch this icon to check.



Lit indicator: Communication error

B Emergency Stop Reports emergency stop.



Emergency Stop

Text: Emergency stop occurred. Touch this icon to release.



Waiting for Release

Text: Emergency stop occurred. Touch this icon to release.

*A balloon is displayed when the target unit entered into waiting for release status automatically, without the icon being touched even once. The balloon is not displayed if the target unit was put into waiting for release status manually, by touching the icon.



OFF

C Energy Save Displays the Energy Save status.

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Enabled

Energy Saving control is enabled and being active.



Suspended

Energy Saving control is suspended.



Under Control

Energy Saving control is disabled.

(7) Time

Displays the current time.

(8) Area hierarchy indicator

Displays the hierarchical level of the currently displayed area.

(9) Top, Down, and Up buttons

Top button: Displays the area and management points at the Top.

Down button: Moves into the selected area and displays the areas and management points there.

Up button: Moves up one hierarchical level from that of the currently displayed area and displays

the areas and management points there.

(10) List switch button

Toggles the Standard View screen between Icon View and List View.

(11) Information button

Displays the legend for an icon or contact information for inquiries regarding the system.

(12) Selected area/management point information indicator

Displays the name, icon, and filter sign of the selected area or management point.

(13) Room Temp/Operation Mode/Changeover Option indicator

Displays the room temperature and settings of the selected management point. Not displayed for areas.

- NOTE

When the selected management point is in error, it displays the error code.

(14) Details button

Displays the Detailed Setup screen for the selected area or indoor unit.

(15) On/Off button

Starts/Stops the selected area or management point.

(16) Cool Setpoint spin box

Sets up the cooling temperature for indoor units in the selected area, or the selected indoor unit.

(17) Heat Setpoint spin box

Sets up the heating temperature for indoor units in the selected area, or the selected indoor unit.

(18) Fan Speed button

Sets up the fan speed for the indoor unit of the selected area, or the selected indoor unit.



(19) Setting button

Displays the Detailed Setup screen for the selected area or management point.

2.9.8 Electric Wiring

This chapter describes the procedure for connecting the intelligent Touch Manager with DAIKIN air conditioning devices and other equipment.

In addition to air conditioners, the intelligent Touch Manager can monitor and control a wide range of equipment. However, the required connection procedures vary depending on the equipment to be connected.

Do not connect more than two wires to the same terminal.

Required procedures

(7) Connecting power supply

Equipment-specific procedures

- (3) Connecting a LAN cable
- (4) Connecting I/O module
- (5) Connecting an emergency stop input device or power meter

(2) Connecting DIII-NET-compatible air conditioning equipment

(6) Connecting iTM plus adaptors

/ WARNING -

- Do not turn on the power supply before all wire connections are completed. When there is an earth leakage breaker or a local switch installed on the circuit, make sure that the circuit is securely interrupted. Otherwise, an electric shock may result.
- After the wiring is completed, double-check that all wires are connected correctly before turning on the power supply.
- All field supplied parts and materials, electric works must conform to local codes.
- All wiring must be performed by an authorized electrician.

(1) Removing wiring cover from rear face

Remove the wiring cover from the rear face. Take out two screws using a Phillips screwdriver to remove the wiring cover.

<Removing wiring cover>



(2) Connecting DIII-NET-compatible air conditioning equipment

DIII-NET is the DAIKIN's original communication method used between air conditioners. Using DIII-NET, you can centrally control multiple DAIKIN DIII-NET-compatible air conditioning devices by connecting them to your intelligent Touch Manager.

- 🕂 WARNING -

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- The maximum length of adhered wiring of high current electrical line of power wires and weak current line of communication wires must be kept to 65 ft. or less.

(2)-1

Terminal location and schematic connection diagram

To connect the DIII-NET communication line, use F1 and F2 terminals that are located on the rear face and indicated with "DIII" mark. These 2 terminals have no polarity. An example of connecting more than two air conditioning devices is shown in the following conceptual connection diagram.



Make sure that the wires you are connecting to the F1 and F2 terminals are not power wires. Inadvertently connecting power wires to these terminals results in a failure of the air conditioner or intelligent Touch Manager.



<Conceptual connection diagram with air conditioning equipment>

- A Outdoor unit
- B OUT OUT communication (terminal)
- **C** IN OUT communication (terminal)
- D Indoor unit
- E A maximum of 16 indoor units can be connected per remote controller group.
- **F** A maximum of 64 remote controller groups (128 indoor units) can be connected. When the power proportional distributions is applied, the maximum number of indoor units is 64.

NOTE
What's a remote controller group? A single remote controller can simultaneously control a maximum of 16 indoor units. This capability is referred to as group control. A remote controller group is a group of indoor units controlled under the same remote controller. [Schematic diagram of remote controller group]
A max.16 Indoor units

(2)-2

Wiring specifications

- Cable type: 2-core vinyl-insulated vinyl-sheathed cable/vinyl cabtyre cable or 2-core non-shielded cable
- Core thickness: AWG 18-16
- Terminal treatment: Use a round crimp-type terminal (M3.5) with insulating sleeve

- Do not use multicore cables with three or more cores.
- The maximum wiring length is 3280 ft. and total wiring length is 6561 ft. or less.

(2)-3

Precautions for using multiple centralized controllers

The "centralized controller" refers to the equipment (e.g. the intelligent Touch Manager) that controls multiple air conditioners. Besides the intelligent Touch Manager, the DAIKIN's product portfolio includes a wide range of centralized controllers suitable for different applications or building sizes, which can be used in combination to construct an optimal air conditioning control system.

If multiple centralized controllers are connected on the DIII-NET network, you must set MASTER and SLAVE relationship for those controllers.

Assign only one of those controllers to MASTER, and other controllers to SLAVE.

The intelligent Touch Manager is set to MASTER by default. Change the setting to SLAVE in any of the following cases:

- Where Interface for use in BACnet is installed in parallel.
- Where Interface for use in LONWORKS is installed in parallel.
- If there is another intelligent Touch Manager or iTM plus adaptor which is assigned to MASTER.

<DIII MASTER>

To change the setting of the intelligent Touch Manager to SLAVE, turn the DIII MASTER switch located under the front slide cover. Placing the DIII MASTER switch in the upper position (labeled as "SLAVE") changes it to a SLAVE.



When installing multiple centralized controllers, set only the highest-priority controller to MASTER and all other controllers to SLAVE according to the following order of priority.

	(1) Interface for use in BACnet
High	(2) Interface for use in LONWORKS
	(3) intelligent Touch Manager (Main), iTM plus adaptor (Main)
Priority	(4) Central Remote Controller (Main)
FIIOIIty	(5) intelligent Touch Manager (Sub), iTM plus adaptor (Sub)
	(6) Central Remote Controller (Sub)
Low	(7) ON/OFF Controller (Main)
1	(8) ON/OFF Controller (Sub)

Centralized controllers that cannot be connected to the same network as the intelligent Touch Manager.

- Calculate Unit
- intelligent Processing Unit
- Parallel Interface
- intelligent Touch Controller
- DIII-NET Plus Adaptor
- Residential Central Remote Controller
- Wiring Adaptor for Electrical Appendices (1) (KRP2)

(3) Connecting a LAN cable

By connecting the intelligent Touch Manager with a PC via Ethernet, you can remotely perform operations such as operation setup and maintenance of air conditioning system.

WARNING

Do not clamp the LAN cable with high current cables.

NOTE

For how to connect the intelligent Touch Manager to a PC network, contact your network administrator.

(3)-1 Terminal location and schematic connection diagram

Using a LAN cable, connect the LAN port to the network hub.

<LAN connection schematic diagram>



- A Rear face of intelligent Touch Manager
- B LAN cable
- C Hub
- D PC

(3)-2

Wiring specifications

- Applicable cable standard: 100Base-TX or 10Base-T
- Connector standard: RJ-45

- NOTE -

• When you connect the intelligent Touch Manager to the LAN temporarily during installation or maintenance, use the SERVICE LAN port located on the front face.

The SERVICE LAN port is enabled by changing the position of the LAN SW switch beside the SERVICE LAN to the FRONT position.

• You cannot close the cover when the switch set to "FRONT". To close the cover, select "BACK".

<SERVICE LAN socket and LAN SW switch>



- A SERVICE LAN
- B LAN SW

(4)-1

(4) Connecting I/O module

In combination with the I/O module, the intelligent Touch Manager can monitor and control a maximum of 960 contacts of non-DAIKIN peripheral devices such as lighting equipment and security systems. Connect the intelligent Touch Manager to the termination of the RS-485 wiring.

- 🕂 WARNING -

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp the cables with high-current lines such as a power cable.

Terminal location and schematic connection diagram

<Schematic drawing of I/O module connection>



Connect to the RS-485 terminals located on the rear face. As the terminals have polarity, be sure to connect the positive core wire to the + (positive) terminal and the negative core wire to the – (negative) terminal, respectively.

(4)-2 Wiring specifications

- Cable type: CPEV or FCPEV cable (shielded type also acceptable)
- Cable length: 1640 ft. or less
- Core thickness: AWG 22-19

CAUTION When using a shielded cable, be sure to connect the cable to the G (ground) terminal.

(4)-3 Address setup

The bus coupler located at the left end of nodes has rotary switches for setting the addresses. Set a unique address for each node. For details, refer to the "Commissioning Manual Supplementary Volume (External Management Points (EM11A026))".



(5) Connecting an emergency stop input device or power meter

The intelligent Touch Manager can perform operations such as an emergency stop of air conditioners according to the external signal input device, and an electricity usage calculation for each air conditioner (for power proportional distribution) according to the pulse inputs from a power meter.

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

(5)-1 Terminal location and schematic connection diagram

Connect the contact input signal wire or pulse signal wire to Di1, Di2, Di3, Di4, or COM terminal on the orange connector on the rear face. Each of these terminals has different function.

[Di1] Emergency stop input

[Di2] [Di3] [Di4] Pulse input, contact signal input

[COM] Common

However, the function settings for these terminals can be changed later. For how to change the function settings, refer to the "Commissioning Manual (EM11A022)".

<Schematic drawing of Di connection>



The COM terminals are all connected internally. So, you can use either of them. However, you can connect up to two wires simultaneously to each COM terminal. When using an open collector type output, connect the COM terminal to the negative side.



(5)-2 Wii

- Wiring specifications
- Cable type: CPEV cable
- Core thickness: AWG 22-19
- Cable length: 656 ft. or less



A Pulse width: 20 to 400 ms

B Pulse interval: 100 ms or more

CAUTION -

- The contact connected to the contact input terminal must be capable of handling 10 mA at 16 VDC.
- If an instantaneous contact is used for triggering an emergency stop, use one that has an energization time of 200 ms or more.

- NOTE -

Once the emergency stop input signal is turned on, all air conditioners stop and do not restart until the emergency stop input is cleared. When the manual reset is specified for the resetting method, you need to clear the emergency stop using the intelligent Touch Manager.

(6) Connecting iTM plus adaptors

If you have many air conditioners, use iTM plus adaptors to connect them. It is a fact that the number of indoor groups you can control using a single intelligent Touch Manager is limited to 64. By using iTM plus adaptors, you can add 64 indoor unit groups per iTM plus adaptor. Moreover, considering that the intelligent Touch Manager can be connected with a maximum of seven iTM plus adaptors, you can control a total of 512 groups of indoor units at a maximum using a single intelligent Touch Manager.

- Be sure to perform the operation during power-off conditions. Not doing so may cause an electric shock.
- Do not clamp high-current cables together with low-current cables.

(6)-1 Terminal location and schematic connection diagram

Connect the iTM plus adaptor to the plus ADP IF terminal located on the rear face. Connect the intelligent Touch Manager to the plus ADP IF terminal. As the terminals have polarity, be sure to connect the positive wire to the "+" terminal and the negative wire to the "-" terminal without fail. Connect the intelligent Touch Manager to the termination of the RS-485 wiring.

<Terminal location and schematic connection diagram>



- A intelligent Touch Manager
- B iTM plus adaptor
- C plus ADP IF (intelligent Touch Manager)
- D plus ADP IF (iTM plus adaptor)
- E iTM plus adaptor on which termination resistor must be enabled (For details, refer to the "iTM plus adaptor installation manual" (EM11A030).)

(6)-2 Wiring specifications

- Cable type: CPEV or FCPEV cable
- Core thickness: AWG 22-18
- Cable length: The overall cable length between the intelligent Touch Manager and the terminal iTM plus adaptor is 164 ft. or less.
- Wiring connection type: Sequential connections

- NOTE

Each air conditioner controlled via an iTM plus adaptor is also assigned a DIII address between "1-00" to "4-15". From the intelligent Touch Manager, it is recognized as "2:1-00", "3:1-02", or the like, with the DIII-NET port number prefixed.
Controls

3. Adaptor

3.1 KRCS01-1B / KRCS01-4B / KRCS01-2UA Remote Sensor

Notes Please check applicable kit model name by catalog etc.. • When installed on Skyair Round-flow type models, the dehumidification by detection of humidity does not operate. Accessories Check the following accessories. Installation Mounting screw Remote sensor Extension cable Name manual Clamp (M4X16) (sensor box) (2-core, 12m) this drawing) 2 13 (4) 5 =П Shape **A** á Quantity Χ1 Χ1 Χ2 Χ1 Χ2 Mounting 1)Selection of mounting location. The thermistor for temperature detection is incorporated into the remote sensor. Select the mounting location taking the following cautions into account. ① Where the average temperature of an air conditioned room can be detected. ② Where it is not exposed to the direct sunlight. ③ Where it is not influenced by other heat sources. (1) Where it is not exposed to the direct discharge air from the air conditioner. (5) Where it is not exposed to the outdoor air infiltrated into the room by opening the door. 2)Mounting • Remove the cover of the sensor box. ① Insert a flat blade screw driver into the sensor box concave part (2 locations), about 6mm width ② Remove the cover pushig up the nail to the cover of flat blade screw driver the sensor box. <Cautions> Do not push the nail powerfully with a narrow flat blade screw driver, 1 because you may break off the nail.







3.2 KRCSH2018-01 Button Sensor Kit

MODEL COMPATIBILITY:

Compatible with the following indoor unit models:

VRV and VRV Life	CXTQ, FXAQ, FXDQ, FXHQ, FXLQ, FXNQ, FXEQ, FXFQ, FXMQ, FXTQ, FXSQ, FXUQ, FXZQ
SkyAir	FAQ, FBQ, FCQ, FHQ, FTQ
Multi-zone and Single-Zone	FDMQ, FFQ

SPECIFICATIONS:

Model	KRCSH2018-01
Description	Button Sensor
Weight	0.31 oz (sensor only)
Wiring Length	40 ft
Thermistor	Rt = 20k ohms +/-1% @ 77°or 25°C B 25/50 = 3900 K +/-1% Dissipation Constant ~ 2.5 mW/°C
Self-Heat Compensator	Internal Series Resistor = 140 ohms +/- 1%
Housing	Gray ABS/PC UL94 V-0
Cover	Aluminum (Paintable) Tumble Finish
Spring Fingers	Stainless Steel
Operating Temperature	34 to 125°F (1.1 to 51.6°C)
Storage Temperature	-40 to 140°F (-40 to 60°C)
Humidity	0 to 95% RH non-condensing
Mounting Hole	3/4" Diameter
Compliance	RoHS & REACH Compliant

PRODUCT IMAGE:



FEATURES:

- Extend the sensing location by replacing the return air thermistor in the indoor unit
- Compact and concealable design
- Paintable surface to match wall color (Note: when painting the surface of the sensor, be sure to avoid thick/multiples coats to maintain the accuracy of the sensor)
- Sensor, plenum rated cable and wiring harness adaptors are included in the kit

Items	Button sensor	4-pin plenum rated wiring cable	2-pin harness adaptor	3-pin harness adaptor
Quantity	1	1	1	1
Image				

DIMENSIONS:

Button Sensor



• 2-pin harness adaptor (included)



WIRING DIAGRAM:

• For indoor units that use the 4-pin connector (FXEQ_PVJU, FXFQ_TVJU, FXMQ_PB, FXSQ_TAVJU, FXUQ_PVJU, FXZQ_TAVJU, FCQ_TAVJU, FBQ_PVJU, FFQ, FDMQ), use only the 4-pin Plenum rated cable to connect between the button sensor and the indoor unit PCB. The 2-pin harness adaptor and the 3-pin harness adaptor are not needed for these indoor units.



• For indoor units that use the 3-pin connector (FXAQ_PVJU, FAQ_TAVJU, FXDQ_MVJU, FXHQ_MVJU, FXLQ_MVJU9, FXNQ_MVJU9, FXMQ_M, FHQ_PVJU), use the 4-pin Plenum rated cable and the 3-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The 2-pin harness adaptor is not needed for these indoor units.



• For indoor units that use the 2-pin connector (FXTQ_TAVJU, CXTQ, FTQ_TAVJUD), use the 4-pin Plenum rated cable and the 2-pin harness adaptor to connect between the button sensor and the indoor unit PCB. The 3-pin harness adaptor is not needed for these indoor units.



3.3 KRP1H98A Installation Box for Adaptor PCB

DAI	A I F K R P read t	R COND 1 H 9 8 A HESE INSTRUCTION	[<mark>T]</mark> s care	ONEF	R Insta Insta DRE INSTALLA	llati llati	on box on manu	for adapter al	PCB.
	KEEP T	HIS MANUAL IN A	HANDY	PLACE FOR	FUTURE REFE	RENCE.		2P447067	7-1
Ca	ution A	his box is mount fter confirming	able o the in	n the cei door unit	ling mounted model name,	cassett mount t	e type (ro his box on	und-flow type) u the unit listed	nit.
	• W	hen mounting the Idapter PCB (Prin	ted Ci	see also	the indoor u	nit inst instruc	allation m	anual and the	
	Kit name		Ind	oor unit mo	idel that part:	y crowded	l is possible	6	
	KRP1H98	A SPLIT	FCQ-	TAVJU (Wł	nen using stan	idard deo	co panel)		
			FXFG)-TVJU (WI	nen using star	idard dec	co panel)		_
Aco	cessories	Check if the f	ollowi	ng access(pries are ind	cluded w	ith your k	it.	
	N a m e	Adapter box		COVE		Scr	ew(1)	Screw(2)	
	Shape		>			Z	P C S . P × 12	M4×8	
	Name		Far	th wire	Screw for eau	th wire	Installat	ion	
	Quantity	8 P C S.	Eur	1 P C .	1 P C .		1 P C.		
<	Shape				P				
	ounting	the adapt	er b	0 X)					
	≪ Preparati	on before wiri	nq≫			witch	box cover		
	Remove the switch box	cover. (Fig. 1)	I Y #	[Fig. * The f	1] igure mention	NTEEN		a representative	





C: 2P447068-1



3.4 BKS26A Installation Box for Adaptor Print Circuit Board

	BKS26A	1P508774-1A
	BROZOR	
PL	EASE READ THESE "SAFETY	PRECAUTIONS" CAREFULLY BEFORE INSTALLING
The for Alway	sollowing two conventions are used to ind sheed the important safety information	icate and classify precautions in this manual. provided with them.
A WA	RNING Failure to follow these instr	uctions properly may result in personal injury or loss of life.
🔨 CA	UTION Failure to observe these inspersonal injury, which may	structions properly may result in property damage or be serious depending on the circumstances.
Make :	sure that the unit operates properly after	completing the installation, and explain to the customer how to operate
Also, a Also, a	advise the customer that they should kee time of the installation, read the installati	p this installation manual along with other manual for future reference. on manual of the unit along with the electric diagram.
		WARNING
Ask your Do not at	dealer or qualified personnel to carry out i tempt to install the air conditioner yourself books or fire	nstallation work. Improper installation may result in water leakage,
nstall the	kit in accordance with the instructions in t	his installation manual.
Be sure t	o use only the specified accessories and p	arts for the installation work.
Failure to	use the specified parts may cause the kit	to fail or result in electric shocks or fire.
regulation	ns and this installation manual, using a ser	arate circuit.
insufficier shocks or	nt capacity of the power supply circuit or in r fire.	nproper electrical construction may lead to electric
Turn off t	he unit before touching electrical parts.	come in contact with humans
Be sure t	o use the specified wires and fix them sec	urely so that no external force resulting from the wires
will be im Improper	posed on any terminal connections. connections or securing of wires may resi	ult in abnormal heat build-up or fire.
Position t	he wires so that the cover will not rise whe	en wiring the power supply.
electric sl	e that the cover is attached securely. If the hocks or fire may result.	e cover is attached impropeny,
		/N CAUTION
Do not in	stall this kit in the following locations:	
Do not in 1. Where	stall this kit in the following locations: there is a high concentration of mineral o	il spray or vapour for example a kitchen.
Do not in 1. Where 2. Where or the	stall this kit in the following locations: there is a high concentration of mineral o corrosive gas, such as sulfurous acid gas	ill spray or vapour for example a kitchen. s, is produced, acid or alkaline steam gathers, laces by the sea. Parte may be corrected and fall off.
Do not in 1. Where 2. Where or the 3. Near r	stall this kit in the following locations: a there is a high concentration of mineral o corrosive gas, such as sulfurous acid gas air contains a high salt content, such as p nachinery emitting electromagnetic waves	il spray or vapour for example a kitchen. s, is produced, acid or alkaline steam gathers, laces by the sea. Parts may be corroded and fall off. or in places with great voltage fluctuations,
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Do not in 1. Where 2. Where or the 3. Near r such a 4. Where or with Fire m 5. Where Small Ution to f com en mour outdoor r CCESS eck if the - <atter not throw me Act</atter 	stall this kit in the following locations: a there is a high concentration of mineral o a corrosive gas, such as sulfurous acid gas air contains a high salt content, such as p machinery emitting electromagnetic waves as factories. a flammable gas may leak, in places with o n volatile flammables such as paint thinner hay result if gas leakage occurs and stays a small animals intrude, fallen leaves gathe animals making contact with electrical par animals making contact with electrical par t is mountable on VRV outdoor unit. model name of the outdoor unit in the ta bination) before mounting this product. ting, see also the installation manuals of unit and Optional adaptor for outdoor unit ories a following accessories are included in the tition>	iii spray or vapour for example a kitchen. is, is produced, acid or alkaline steam gathers, laces by the sea. Parts may be corroded and fall off. or in places with great voltage fluctuations, arbon fiber or ignitable dust suspensions in the air or gasoline, or in vehicles or vessels. around the kit. r, or weeds grow. ts can cause malfunctions, smoke or fire. ible on the right f a main unit of t. me unit. ion work is completed.







1P508774-1A

3.5 KRP1BA101 Installation Box for Adaptor PCB





C: 1P107687-1D





3.6 KRP1BA97 Installation Box for Adaptor PCB



C: 2P389469-1



3.7 KRP4A98 Installation Box for Adaptor PCB





3.8 KRP4A96 Installation Box for Adaptor PCB





3.9 KRP1C93 Installation Box for Adaptor PCB





Installation preparation





3.10 KJB311AA Electrical Box





NOTES:1. Refer to the installation of each remote controller. 2. Do not bind the lead wires for switch box with the power

cord and the link wiring.

- This may cause erratic operation.
- 3. The remote controller and the clamp screw C are one kit. They are sold separately and attach to the switch box.
- 4. Ground the shield part of shielded wire or earth wire (only KJB311A(A)) as shown in the Fig. 1.
- 5. Stick the label for earth attached to the equipment.

3.11 DTA104A53 / 61 / 62 External Control Adaptor for Outdoor Unit (Must be Installed on Indoor Units)

(Note) The drawing is released common for worldwide models. Please ask your DAIKIN dealer for more specific information such as aplicable models.

DAIKIN VRV AIR CONDITIONER External Control Adaptor for Outdoor Unit Installation Manual DTA104A61.62.62-9.51.52.53.53-9





1PA63164J



S Installation

. Install the adaptor inside the control box of indoor unit of same refrigerant circuit.

• If installing on a BS unit, install the adaptor inside the control box of the BS unit.









1PA63164-1J
3.12 DTA109A51 DIII-NET Expander Adaptor









3.13 KRP1C74 / 75 Adaptor for Wiring

Wiring Adaptor Installation Manual

KRP1C74 • 75





C: 2P263038F



3.14 KRP50-2 Wiring Adaptor for Remote Contact / Humidifier



Item	Model	KRP50-2
itoini		
Applicable Model		VAM-GVJU
	W	3-11/32"
Dimensions (in.)	Н	1-59/64"
()	D	1-1/16"
Applicable load		AC250V 0.01~1A
Component parts		PCB, PCB stand offs, Installation manual

Components



Installation guide

 The KRP50-2 can be connected to Energy Recovery Ventilator units as follows to send the operation signal (pilot lamp etc.) to remote locations.

Electric wiring is as follows.

· For Remote contact



· For Humidifier



2 KRP50-2 can also be connected to SkyAir indoor unit for the interlocked operation with Energy Recovery Ventilator units.

Components

See the right for components.

Fixing Screw 3 PCS. Clamp 2 PCS.

Installation

Install the Adaptor PCB to the outside of switch box for Energy Recovery Ventilator unit as show below.



Applicable adaptor

	Adapter name	Kit name
(1)	Adaptor PCB for Humidifier	KRP50-2
(2)	Adaptor PCB for Remote control	KRP2A21

C: 4P055444

3.15 KRP4A71 / 72 / 73 / 74 Wiring Adaptor for Electrical Appendices (2)







Using mode	the control mode selector as described below.	switch (RS1), select the cont	trol		RS1 Control mode Selector switch		
				(Fact °0°PO	ory set) sition		
For sp	ecifying individual display						
Pos	sition	Function					
	0 Individual	display (Input ignored)					
When o	perating the unit with cons	tant input at input A	• ON		When input A is DEE		
1	ON/OFF control impossible	Operation (Normally ON/OFF	control impos	sible			
2	by remote controller Centralized	by remote controller) Operation + ON/OFF control	possible by				
2	OFF control possible by	Controller Operation + OFF control por controller (ON control imp	ssible by remo	te	OFF + ON/OFF control impossible by remote		
5	remote controller	controller)			controller		
4	by remote controller	(Operation impossible by o	ptional contro	ller)			
When o (Use a osition	perating the unit using ins n instantaneous input of 20 Function	tantaneous input at input A O msec or longer ON time). Input A			Input B capacity		
5	ON/OFF control impossible by remote controller	Turns OFF system with ON Turns ON system with ON	input input	Input	B is for forced OFF input		
6	Individual	Turns OFF system with ON input Turns ON system with ON input (Normally ON/OFF control possible by remote controller)		(when ON, OFF control is possible but ON/OFF control by remote controller is impos- sible, and input A is ignored)			
For th	ermostat control using inpu	t B					
osition	When inp	ut A is ON	Encod that	When in	put B is ON		
D	UN/UFF CONTROL IMPOSSI (Same as	e by remote controller Forced the osition 5) Energy sav		ng con	g command (#)		
Е	- Individual (Sa	e as position 6)		mostat	stat OFF command		
-			Energy savi	ng con	imand (*)		
indoor Energy The in	unit fan only operates. saving command (‡) door unit operates at 4°F	higher (cooling)/lower (heati	ing) the set to	emperat	ure.		
lote > In suc stop,	h case, even if înput A is	ON, thermostat control is tu	rned OFF, and a	all uni	ts in the same group will		
	perating the unit using ins	tantaneous input at input A a O msec or longer DN time).	ind B				
When o (Use a	n instantaneous input of Zo	When input A	is ON		When input A is OFF		
When o (Use a osition	Function	Openation (Parrelly Of for	Operation (Normally ON/OFF control impossible by remote controller)				
When o (Use a osition 7	Function ON/OFF control impossible by remote controller	Operation (Normally ON/OFF by remote controller)		Operation + ON/OFF control possible by remote controller			
When o (Use a osition 7 8	Function ON/OFF control impossible by remote controller Centralized	Operation (Normally ON/OFF by remote controller) Operation + ON/OFF control remote controller	possible by		OFF + ON/OFF control		
When o (Use a osition 7 8 9	Function ON/OFF control impossible by remote controller Centralized OFF control possible by remote controller	Operation (Normally ON/OFF by remote controller) Operation + ON/OFF control remote controller Operation + OFF control pc controller (ON control ing controller)	possible by possible by remo possible by rem	ote note	OFF + ON/OFF control impossible by remote controller		
When o (Use a osition 7 8 9 A	Function ON/OFF control impossible by remote controller Centralized OFF control possible by remote controller ON/OFF control possible by remote controller	Operation (Normally ON/OFF by remote controller) Operation + ON/OFF control remote controller Operation + OFF control pr controller (ON control imp controller) ON/OFF control possible by ler (Operation impossible ler)	possible by possible by remo possible by rem remote contro by optional co	ote note nl- ontrol-	OFF + ON/OFF control impossible by remote controller		

At position B, the constant mode for input B is not used.



3.16 BRE49B1F Sensor Unit (Sensor Kit)



C: 3D075714K

Daikin Air ConditionersSensor kit installation manualRead this manual before
installation and follow the instructionBRE49B1(F)(K), BRE49B2(F)(K)1P383776-1B

Note to the installer • After installation, make sure the sensor can activate the swing flap operation.

Note • Refer also to the installation manual attached to the indoor unit.

Accessories Check if the following accessories are included with your unit.

Name	Shape	Quantity	Name	Shape	Quantity	Name	Shape	Quantity	Name	Shape	Quantity
Sensor assembly		1 set	Sensor cover		1	Brand name plate	$\left(\begin{array}{c} \\ \\ \end{array} \right)$	1	Fixing screw		1
						Wire harness (Long)		1	Wire harness (Short)		1
Clamp material (Large)	ø	5	Clamp material (Small)	<u></u>	1	Others	Installation manual (This manual)	1			





1P383776-1B

3.17 DTA114A61 Adaptor for Multi Tenant

Daikin Air Conditioner Adaptor for Multi tenant Installation Manual DTA114A61 • 61-9 Accessories Check that the following accessories are provided with the adaptor before installation Note Applicable models Relay harness An adaptor mounting plate and mounting box are required in addition to the provided component parts in the case of mounting the adaptor to the following models. FXFQ-P 700 Adaptor for Multi tenant White White, 4 pins FXFQ~P: KRP1H98 FXMQ~P: KRP4A96 FXAQ-M: KRP4A93 UL electric wire 1 pc. FXMQ~P 350 Both ends of harness are for connection of PCB of indoor unit (or BS unit) and for connection of adaptor for multi tenant. Be careful when connecting them. White White, 4 pins UL electric wire BSVO-P 260 White Blue, 3 pins UL electric wire FXAQ-M PCB support 4 pcs. 1900 4 pcs. Tiewrap Relay harness 4 pcs. (see the table on the right-hand White White, 3 pins side for applicable mode VCTF electric win Installation Manual 1 pc.









1P223254-1B







6 FIELD SETTING)

Follow the "FIELD SETTING" in the installation manual of the remote controller for the indoor anit and make a necessary field setting in the remote controller after terning the sir conditioner ON. • Set the remote controller to field set mode, select Mode No. "12", and set the FIRST CODE NO. to "11" and the SECOND CODE NO. to "04". (The SECOND CODE NO. is factory set to "01") Note: The remote control terminals (T1 and T2) of the indoor unit is for multi-lenant use. Therefore, the COMPUTERIZED CONTROL of the indoor unit is not available.

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- Warning Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any inquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced. 2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.