

# Datasheet

## BRC073A1 Wired user interface

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## 1. Purpose

The wired user interface BRC073A1 allows the end user to control connected Daikin indoor units. The wired user interface uses typically the S21 connection of the indoor unit to communicate.

## 2. Overview of compatible Daikin units ranges

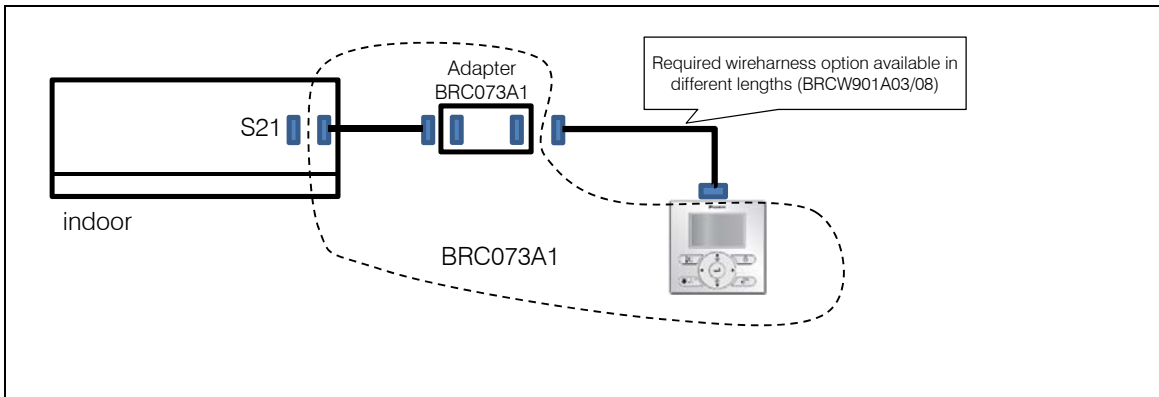
Attention: Some indoor models does not have the S21 connector as standard. In this case, it is needed to install an optional PCB adapter (eg KRP980B1) with integrated S21 connector. For details see chapter 7. Overview of compatible Daikin models .

The wired userinterface can be connected to following model ranges:

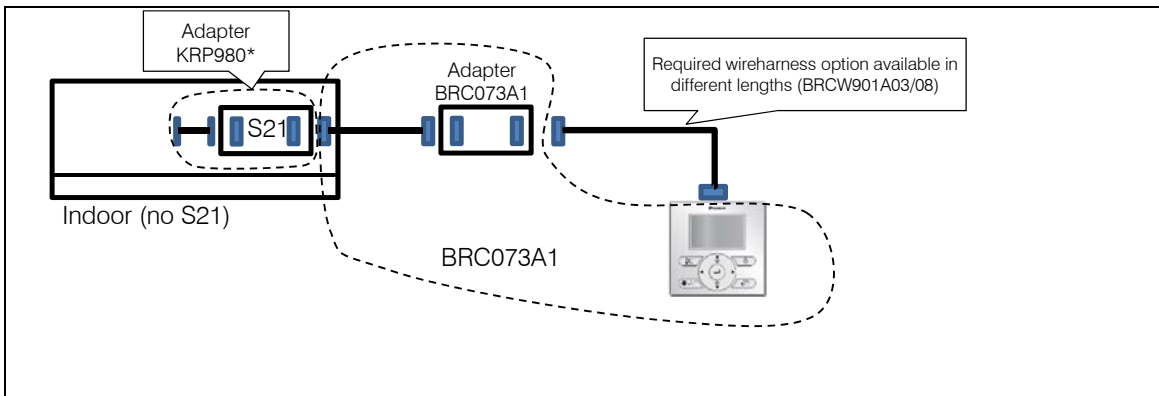
	description	Brand	model range
Wall mounted	Ururu Sarara	Daikin	FTXZ-N
	Emura	Daikin	FTXG-LW/S
	Emura	Daikin	FTXJ-LW/S
	Wall mounted	Daikin	CTXS-K
	Wall mounted	Daikin	FTXS-K
	Wall mounted	Daikin	FTXM-K
	Wall mounted	Daikin	FTXLS-K
	Wall mounted	Daikin	FTXS-G
	Wall mounted	Daikin	FTX-J
	Wall mounted	Daikin	FTX-GV
	Wall mounted	Daikin	FTXL-JV
	Wall mounted	Daikin	FTX-KV
	Siesta	Daikin	ATXS-K
	Siesta	Daikin	ATXS-KV
	Siesta	Daikin	ATXL-JV
Siesta	Daikin	ATX-J	
Floor standing	Nexura	Daikin	FVXG-K
	Floor standing	Daikin	FVXS-F
Flexi type	Flexi type	Daikin	FLXS-B(9)

### 3. System layout

#### 3.1 Typical layout for indoor models with standard S21 connector integrated.

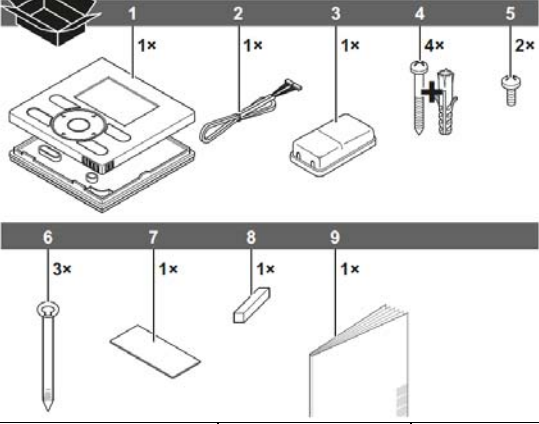


#### 3.2 Typical layout for indoor models without S21 connector



## 4. Specifications

### 4.1 Technical specifications

			BRC073A1
Content			
		1. User interface 2. wireharness S21 (to be installed between indoor unit and adapter. Length 1 meter.) 3. Adapter 4. Screws + plugs 5. Screws 6. Clamps 7. Tape 8. Wire retainer 9. Operation and installation manual (Remark: wireharness connection between adapter and user interface is a separate required option with selectable wire length)	
Dimensions	packing	h x w x d (mm)	50 x 220 x 160
	Userinterface	h x w x d (mm)	120 x 120 x 19
	Adapter	h x w x d (mm)	80 x 44 x 21.5
Weight of userinterface	net weight	g	290
	gross weight	g	348
Weight of packing	material		Carton
	weight	g	50
Ambient temperature	operation	°C	-10 ~ + 50 (indoor use)
	storage	°C	-20 ~ + 70
Humidity			Below 95%RH
Temperature setpoint range cooling		°C	18-32
Temperature setpoint range heating		°C	10-30
Temperature setpoint range auto mode		°C	18-30
Temperature setting resolution		°C	1
color			Fresh white
button cover			No
operation lamp			Green
LCD size			43,2x68,85 mm
LCD type			full dot (160 x 255)
Back light			Yes (white color)
Backup for power failure			yes (The clock will keep functioning for period not exceeding 48 hours)

#### BRC073A1 Options

Option	description	Required/not required	model
Wire harness option	Wire harness connection between adapter and user interface.	Required options for each installation.	BRCW901A03 (3 meter) Or BRC901A08 (8 meter)
PC USB cable option	To modify the standard language package in combination with the updater software. For Updater software: please contact your local dealer.	Not required for each installation.	EKPCCAB3

### Indoor model Options

S21 adapter	Adapter with integrated S21 adapter.	Required option for each indoor model which does not have the S21 connection. For detailed overview refer to 7. Overview of compatible Daikin models	KRP980B1 & EKRPO67A41 & EKRPO980B2 (specific model depending on indoor model)
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#### Combination with other options that are connected to S21:

- BRC073A1 wired user interface is connected to the S21 connector of the indoor unit.
- Only one S21 option can be applied at the same time on an indoor units with S21. (Not possible to combine with different other S21 options e.g. BRP069A42 WLAN adapter ...)

#### Exception:

Due to the fact that the BRC073A1 has been designed to be able to install in combination with KRP928\*. This combination is allowed.

#### BRC073A1 allowed combination with other options that are connected to S21.

Option	description		model
Adapter	Adapter to connect split type indoor models to a DIII central control equipment	For details refer to chapter 6. Combination BRC073A1 & KRP928* to connect to DIII central control equipment	KRP928*

## 4.2 Available documentation

Document	Contains ...	Format
Installation and operation manual	Installation and operation instructions	Paper (in the box)
Installer reference guide	Preparation of installation, technical specifications, reference data, ...	Digital files on: <a href="http://www.daikineurope.com/support-and-manuals/product-information">http://www.daikineurope.com/support-and-manuals/product-information</a>
User reference guide	Detailed step-by-step instructions and background information for basic and advanced usage	

For detailed instructions on how to connect the wireharness to the S21 connector for the different indoor units:

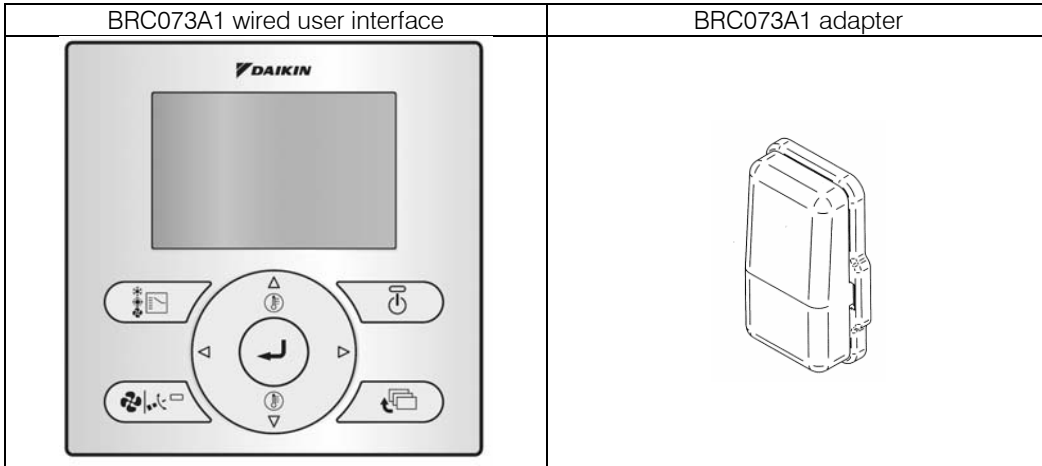
Refer to the available installation videos for each daikin unit range with similar S21 wireharness installation of Daikin online controller are available on <http://www.daikineurope.com/support-and-manuals/product-information>.

Example:

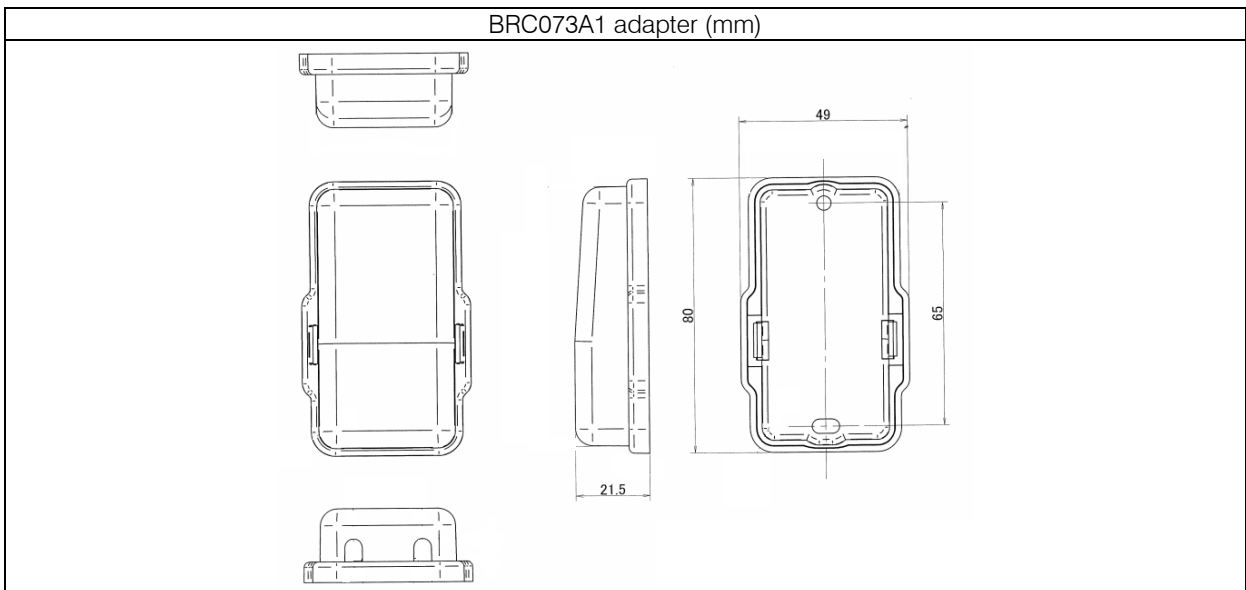
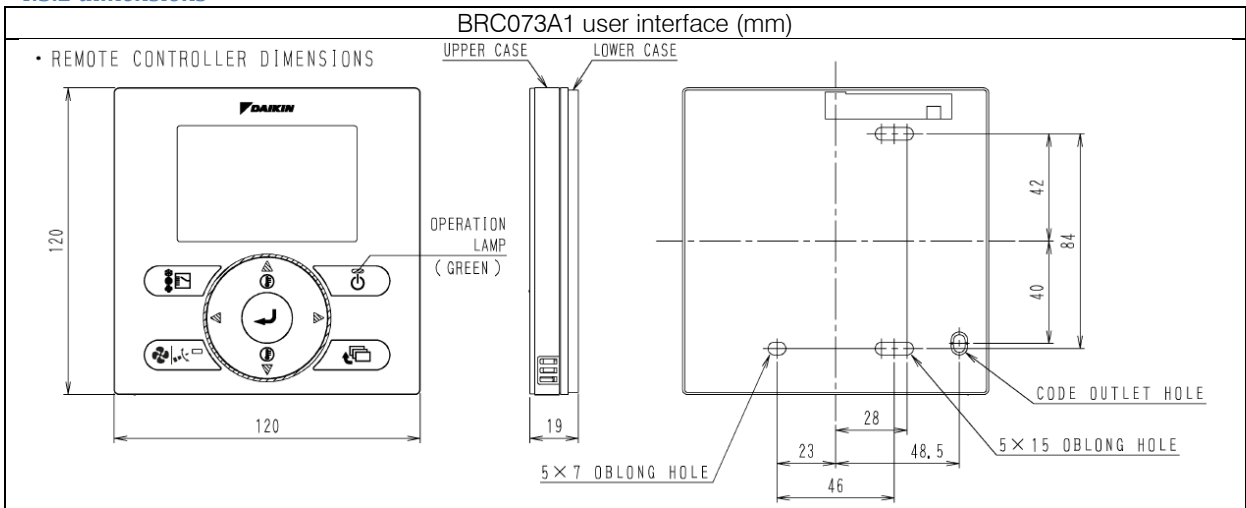


### 4.3 Outlook and dimensions

#### 4.3.1 outlook



#### 4.3.2 dimensions



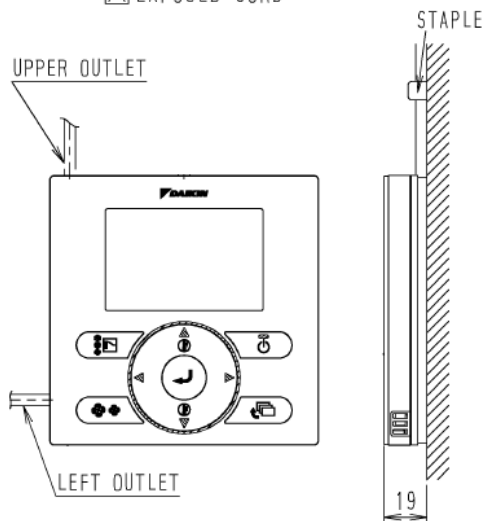
## 4.4 Installation method

### 4.4.1 User interface

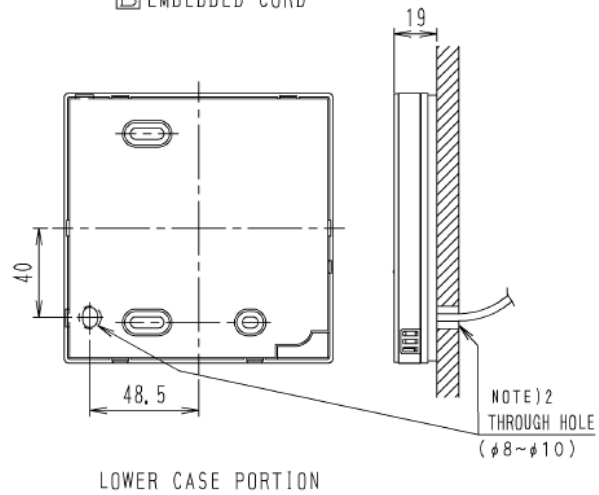
Dimensions in mm

#### • INSTALLATION METHOD

##### Ⓐ EXPOSED CORD

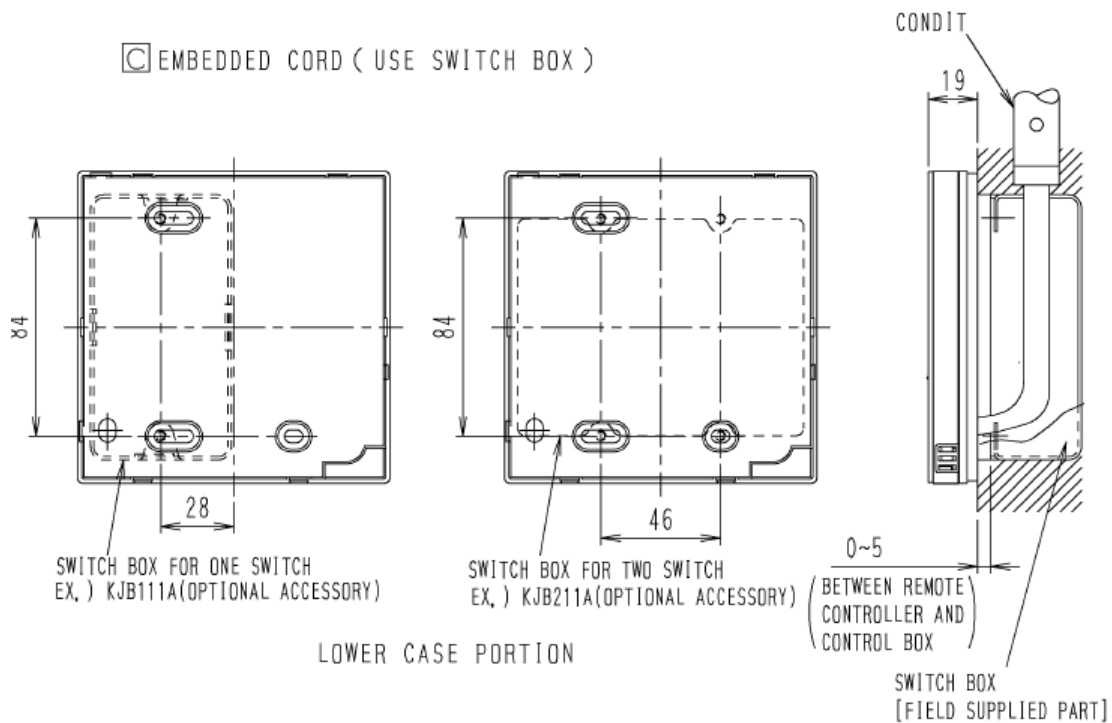


##### Ⓑ EMBEDDED CORD



(Remark: Compared with similar BRC\*E\* casing designs, the upper center outlet installation method is not possible because the hole is too small to install the BRCW901A\* wire harness)

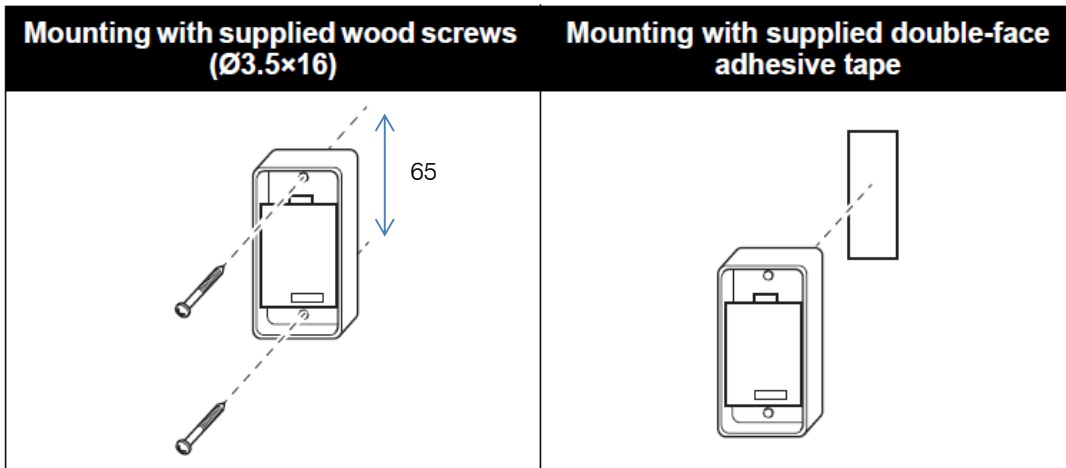
##### Ⓒ EMBEDDED CORD (USE SWITCH BOX)



In case switch box is used: connect ground of BRCW901A\* wire harness to the metal part of switchbox.

#### 4.4.2 Adapter

Dimensions in mm





## 5. Summary of features

Information:

- Only one user interface can be connected to each indoor unit
- Avoid using the wired userinterface and the wireless user interface at the same time. When combining usage refer to the user reference guide for the phenomena that can occur.

### 5.1. Basic user interface

The basic userinterface functions are:

- On/off
- Operation mode change-over:
  - Cooling/ heating or auto C/H change-over mode or fan only or dry mode (auto C/H change-over mode: "independent" cooling and heating adjustable temperature setting)
  - (auto C/H change-over mode: the actual indoor unit running mode cooling or heating will also be displayed)
- Temperature adjustment (°C)
  - (always based on measured temperature inside indoor unit)
- Fan speed adjustment
- Air flow direction adjustment

### 5.2. Operation / userinterface

Direct buttons for:

- On/off button
- Operation mode selector button
- Temperature up/down buttons
- Fan speed/air flow direction button

Others settings selectable via menu (by default accessible)

Userinterface: different languages are included (depending on Language package)

Language package 1	Language package 2	Language package 3
(standard supplied)		
7 Languages	7 Languages	7 Languages
1) English	1) English	1) English
2) German	2) Czech	2) Russian
3) French	3) Croatian	3) Greek
4) Italian	4) Hungarian	4) Turkish
5) Spanish	5) Slovenian	5) Polish
6) Portuguese	6) Romanian	6) Serbian
7) Dutch	7) Bulgarian	7) Slovak

Note: With EKPCAB3 "PC USB cable" in combination with "updater" (PC software) the language package can be modified

Button permission (setting by hidden menu)

- Individual restriction of each button (on/off button, operation mode selector button, arrow buttons, fan speed/air flow direction button)
- Individual restriction of menu function (schedule, configuration, clock & calender, etc...)
- (hidden menu) individual operation mode (Fan only, Cooling, Heating, Auto, Dry)
- Activation / de-activation and configuration by hidden menu (4 sec on menu button)
  - Pushing non-operable button: no "key" icon is displayed and no message how to unlock is shown.
  - (remark: In case basic screen fieldsetting is changed to "Text & symbols" then mode "key" icon is shown)

- Separately possible to activate / de-activate the menu/enter and cancel button by 4 button combination. By default the menu/enter and cancel button usage are permitted.

Typical application: hotels, etc...

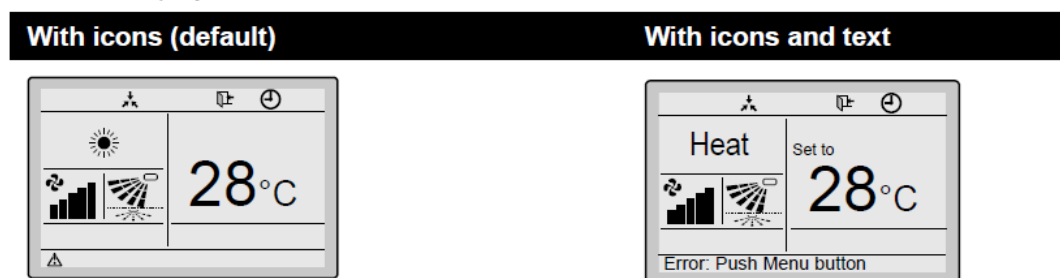
#### Button lock function

- activation / de-activation by pushing 4 sec on menu button  
 pushing a non-operable button: message "key are locked" and explanation how to unlock is shown.

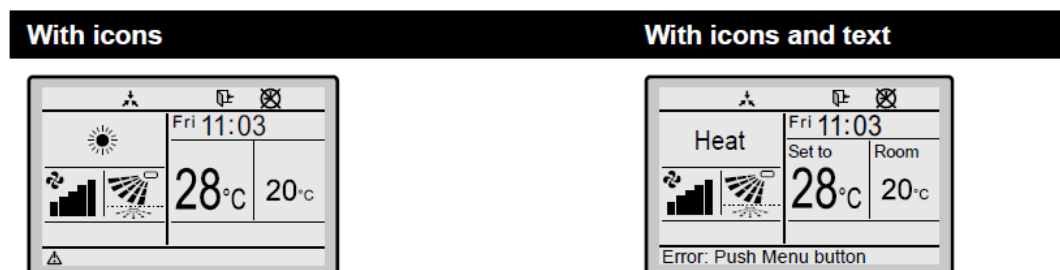
Typical application: child lock

#### Basic Screen:

##### Standard display



##### Detailed display



- Display Selection (standard/detailed display mode)  
 In detailed mode: room temperature or outdoor temperature can be displayed.  
 Notice: Depending on the outdoor unit model, the outdoor temp is not visible when the indoor unit is OFF.
- Basic Screen: Symbols only (no text is used) (allowed to change to combination of "Text & symbols" by fieldsetting)

### 5.3. Clock function

- Real time clock (display 12h or 24 h time format)
- Daylight saving time (Summer/ winter time automatic change over)

### 5.4. Schedule timer function

- 3 independent schedules can be programmed: nr 1,2 & 3  
 (e.g. Nr 1: summer schedule, nr 2: winter schedule, nr 3: intermediate schedule)  
 A maximum of 5 actions can be programmed for each day of the week (totalling 35 actions)  
 Schedule timer nr 1, nr 2 or nr 3 can be enabled/disabled at any time (but manual selection)  
 Each action linked to a Cooling and heating set temperature or OFF (with setback or without setback) operation

- "last command" overrules previous command until next scheduled command
- Holiday function: the schedule timer will be disabled for days that have been set as holiday

Note: Schedule timer function can be restricted in case central controller is installed via the KRP928 adapter

### 5.5. Energy Saving features (menu always available)

- Setpoint range limitation: The setting temperature range can be restricted.
  - Seperate range limitation in cooling mode, heating mode and auto C/H mode
- The setback feature will maintain the space temperature in a specific range during unoccupied periods.
  - Setback temperature range cooling 33° C till 37 °C, heating 10 °C till 15°C.
  - Setback is by default disabled.
  - Setback is possible when unit is switched off and setback is enabled
  - Setback is applicable during heating & cooling by default or during heating only or during cooling only
  - Setback setpoints can be changed when unit is switched off. Setback setpoints are shown in smaller digits
  - Setback always based indoor temp sensor

*Note: Setback is not a precise controle. The temperature is measured inside the air conditioner unit (during the unit is switched OFF). As there is no actual air flow, the measured temperature inside the air conditioner unit can deviate (up to 3°C) with the actual room temperature.*

Note: Setback should not be enabled when a central controller is connected via the KRP928 interface adapter.

- Setting temperature auto reset:
  - Even if the setting temperature is changed, it returns to the preset temperature.
- Off timer: After you turn on the unit, it will automatically turn off after a certain period.

### 5.6. Maintenance information

- Contact dealer telephone registration
- In case there is an error: The service contact telephone number will be displayed next to the error code.

### 5.7. Others

- For multi systems only: If present, "Mode conflict" indication will be shown on unit (LED flashing) and additionally "Mode conflict" message will be displayed on the BRC073A1 wired user interface.

Note: The additional "Mode conflict" message on the BRC073A1 wired user interface will not be displayed when a central controller is connected via the KRP928 interface adapter.

## 6. Combination BRC073A1 & KRP928\* to connect to DIII central control equipment

- Refer to the KRP928 adapter manuals for more information concerning the installation and operation.

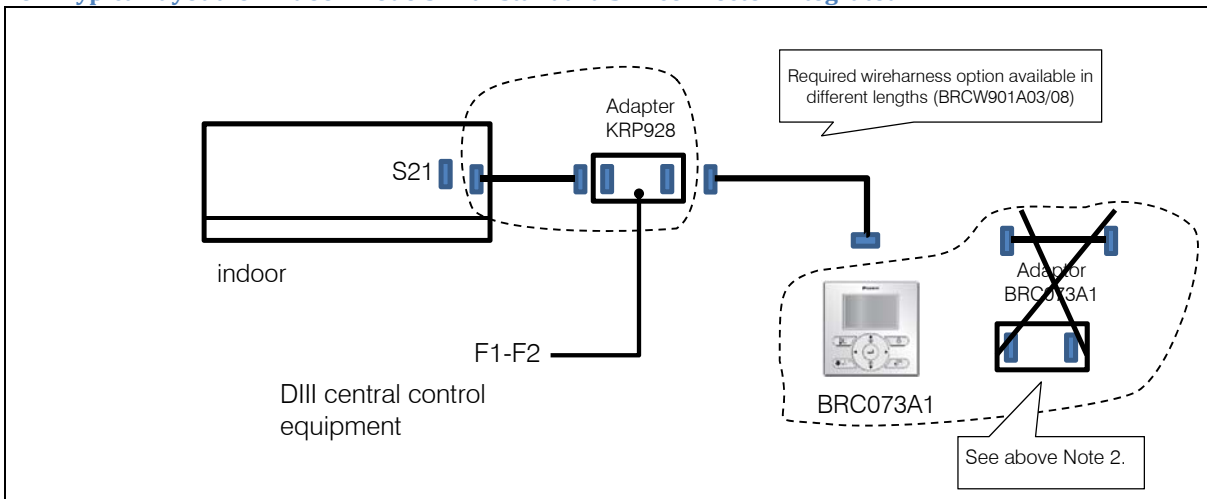
Note 1:

To use KRP928, it is required to use a DIII Central device that supplies power on F1/F2 (e.g. ITM)

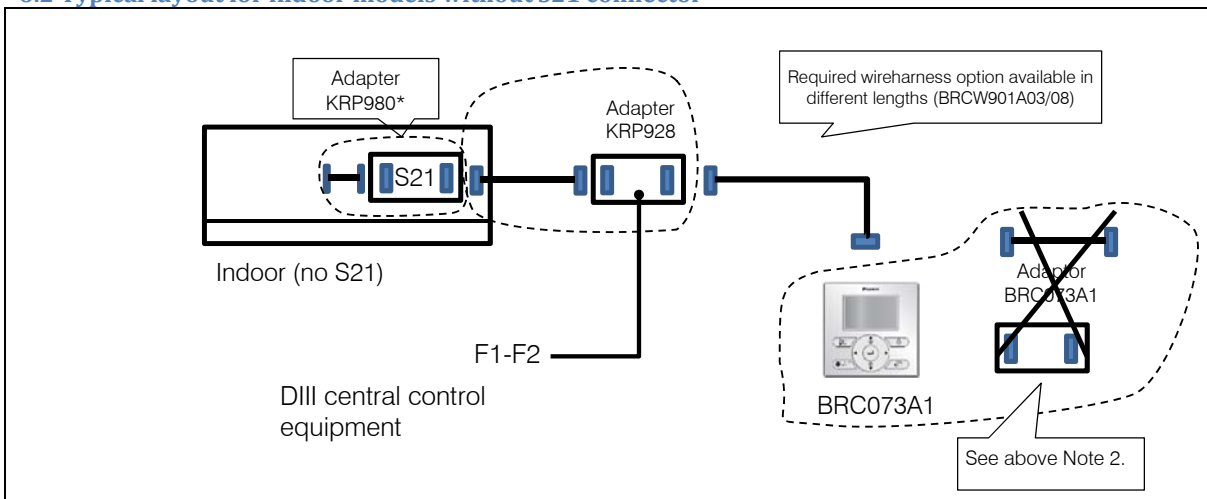
It does not work with devices that do not supply power on F1/F2 (e.g. EKMBDXA7V1 Modbus interface DIII)

Note 2: In this typical layout, the BRC073A1 adapter and wire harness can be discarded as they are replaced by the KRP928 adapter and wire harness.

### 6.1 Typical layout for indoor models with standard S21 connector integrated.



### 6.2 Typical layout for indoor models without S21 connector



### 6.3 Combination BRC073A1 & KRP928\* has influence on following functions

- Schedule timer function can be restricted in case central controller is installed via the KRP928 adapter
- Setback should not be enabled when a central controller is connected via the KRP928 interface adapter.
- The additional "Mode conflict" message on the BRC073A1 wired user interface will not be displayed when a central controller is connected via the KRP928 interface adapter.

## 7. Overview of compatible Daikin models

Attention: Some indoor models does not have the S21 connector as standard. In this case, it is needed to install an option adapter with integrated S21 connector.

	description	Brand	model range	Supported models
Wall mounted	Ururu Sarara	Daikin	FTXZ-N	FTXZ25NV1B FTXZ35NV1B FTXZ50NV1B
	Emura	Daikin	FTXG-LW/S	FTXG20LV1BW FTXG25LV1BW FTXG35LV1BW FTXG50LV1BW
				FTXG20LV1BS FTXG25LV1BS FTXG35LV1BS FTXG50LV1BS
Emura	Daikin	FTXJ-LW/S	FTXJ20LV1BW FTXJ25LV1BW FTXJ35LV1BW FTXJ50LV1BW	
			FTXJ20LV1BS FTXJ25LV1BS FTXJ35LV1BS FTXJ50LV1BS	
Wall mounted	Daikin	CTXS-K	CTXS15K2V1B (KRP980B1 required) CTXS35K2V1B (KRP980B1 required) CTXS15K3V1B (KRP980B1 required) CTXS35K3V1B (KRP980B1 required)	
Wall mounted	Daikin	FTXS-K	FTXS20K2V1B (KRP980B1 required) FTXS25K2V1B (KRP980B1 required) FTXS35K2V1B FTXS42K2V1B FTXS50K2V1B	
			FTXS20K3V1B (KRP980B1 required) FTXS25K3V1B (KRP980B1 required) FTXS35K3V1B FTXS42K3V1B FTXS50K3V1B	
Wall mounted	Daikin	FTXM-K	FTXM20K3V1B (KRP980B1 required) FTXM25K3V1B (KRP980B1 required) FTXM35K3V1B FTXM42K3V1B FTXM50K3V1B	
Wall mounted	Daikin	FTXLS-K	FTXLS25K2V1B FTXLS35K2V1B	
Wall mounted	Daikin	FTXS-G	FTXS60GV1B FTXS71GV1B	
Wall mounted	Daikin	FTX-J	FTX20J2V1B (KRP980B1 required) FTX25J2V1B (KRP980B1 required) FTX35J2V1B (KRP980B1 required)	
			FTX20J3V1B (KRP980B1 required) FTX25J3V1B (KRP980B1 required) FTX35J3V1B (KRP980B1 required)	
Wall mounted	Daikin	FTX-GV	FTX20GV1B (KRP980B1 required) FTX25GV1B (KRP980B1 required) FTX35GV1B (KRP980B1 required) FTX50GV1B FTX60GV1B FTX71GV1B	
Wall mounted	Daikin	FTXL-JV	FTXL 25J2V1B (KRP980B1 required) FTXL35J2V1B (KRP980B1 required)	
Wall mounted	Daikin	FTX-KV	FTX20KV1B (EKRP067A41 required) FTX25KV1B (EKRP067A41 required) FTX35KV1B (EKRP067A41 required) FTX50KV1B (EKRP980B2 required) FTX60KV1B (EKRP980B2 required)	

	Siesta	Daikin	ATXS-K	ATXS20K2V1B (KRP980B1 required) ATXS25K2V1B (KRP980B1 required) ATXS35K2V1B ATXS50K2V1B
				ATXS20K3V1B (KRP980B1 required) ATXS25K3V1B (KRP980B1 required) ATXS35K3V1B ATXS50K3V1B
	Siesta	Daikin	ATXS-KV	ATX20KV1B (EKRPO67A41 required) ATX25KV1B (EKRPO67A41 required) ATX35KV1B (EKRPO67A41 required)
	Siesta	Daikin	ATXL-JV	ATXL25J2V1B (KRP980B1 required) ATXL35J2V1B (KRP980B1 required)
	Siesta	Daikin	ATX-J	ATX20J2V1B (KRP980B1 required) ATX25J2V1B (KRP980B1 required) ATX35J2V1B (KRP980B1 required)
				ATX20J3V1B (KRP980B1 required) ATX25J3V1B (KRP980B1 required) ATX35J3V1B (KRP980B1 required)
Floor standing	Nexura	Daikin	FVXG-K	FVXG25K2V1B FVXG35K2V1B FVXG50K2V1B
	Floor standing	Daikin	FVXS-F	FVXS25FV1B FVXS35FV1B FVXS50FV1B
Flexi type	Flexi type	Daikin	FLXS-B(9)	FLXS25BAVMB FLXS35BAVMB9 FLXS50BAVMB FLXS60BAVMB