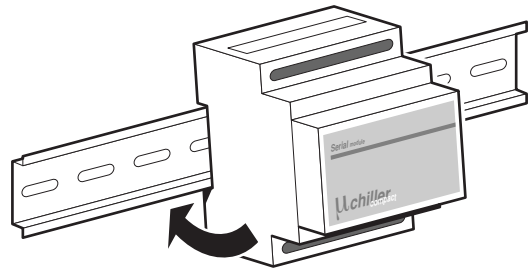
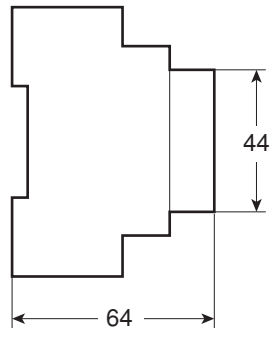
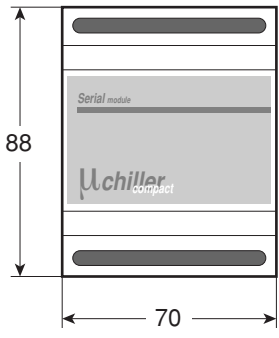




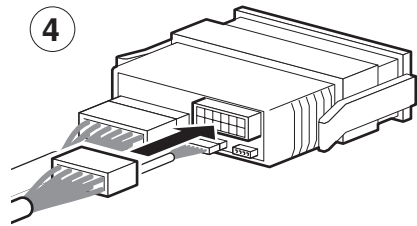
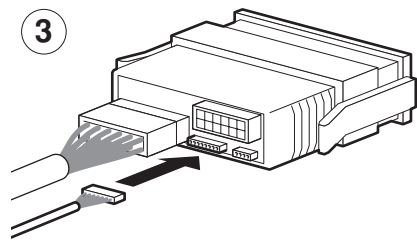
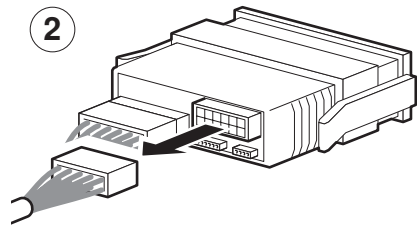
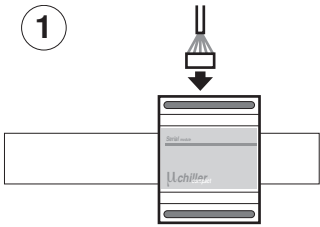
INSTALLATION MANUAL

Address card

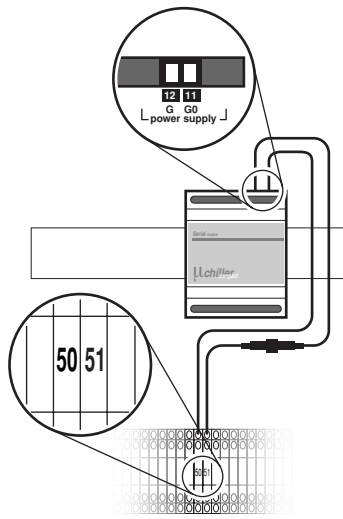


1

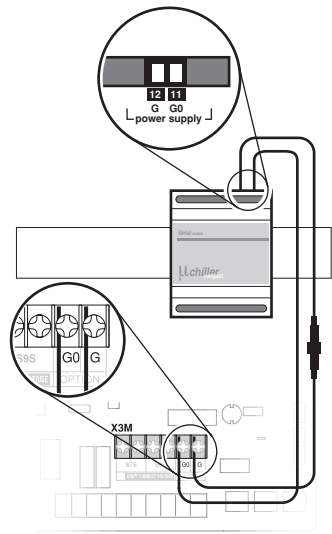
2



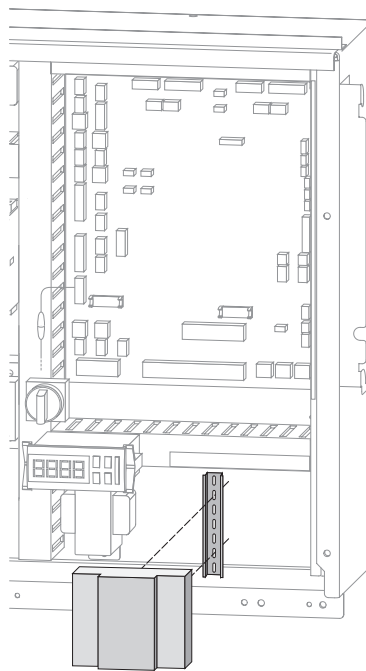
3



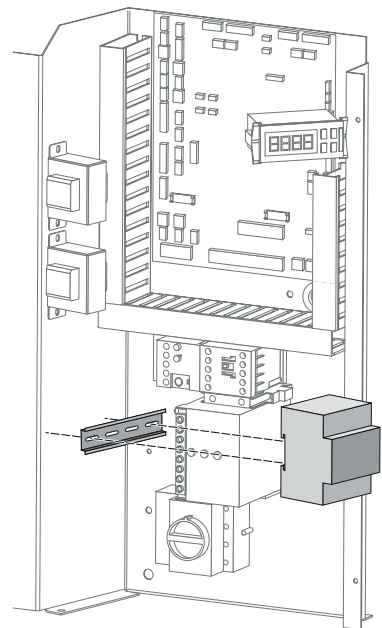
4a



4b



5a



5b



READ THIS MANUAL ATTENTIVELY BEFORE STARTING UP THE UNIT. DO NOT THROW IT AWAY. KEEP IT IN YOUR FILES FOR FUTURE REFERENCE.

IMPROPER INSTALLATION OR ATTACHMENT OF EQUIPMENT OR ACCESSORIES COULD RESULT IN ELECTRIC SHOCK, SHORT-CIRCUIT, LEAKS, FIRE OR OTHER DAMAGE TO EQUIPMENT. BE SURE ONLY TO USE ACCESSORIES MADE BY DAIKIN THAT ARE SPECIFICALLY DESIGNED FOR USE WITH THE EQUIPMENT AND HAVE THEM INSTALLED BY A PROFESSIONAL.

IF UNSURE OF INSTALLATION PROCEDURES OR USE, ALWAYS CONTACT YOUR DAIKIN DEALER FOR ADVICE AND INFORMATION.

INTRODUCTION

Thank you for purchasing the EKAC10B address card.

This address card will enable you to communicate with your chiller through a Building Management System or supervisory system. Please refer to the Gateway Installation Manual for more information and a detailed overview of how the communication works.

OR

This address card will enable you to connect a remote user interface. Please refer to the installation manual of the remote user interface EKRUMC for more detailed information.

CHILLER RANGE

This specific address card is designed to function with chillers of the ranges according to the following table.

Range	Models	Connection	Switchbox
1	EUWA5~12H*(Z) EUWY5~10H*(Z) EUW5~24HZ EUWL5~24HZ	Refer to figure 4a 50/51 on terminals	Omega rail available
2	EUWAC5~10FZ	Refer to figure 4a 50/51 on terminals	Omega rail available
3	EUWAN5~24KZ EUWAP5~24KZ EUWAB5~24KZ EUWYN5~24KZ EUWYP5~24KZ EUWYB5~24KZ	Refer to figure 4b G and G0 on I/O PCB	Refer to figure 5a Installation possible of omega rail
4	EUW5~12KZ EUWL5~12KZ	Refer to figure 4b G and G0 on I/O PCB	Refer to figure 5b Installation possible of omega rail
5	EUW16~24KZ EUWL16~24KZ	Refer to figure 4b G and G0 on I/O PCB	Omega rail available

YOUR ADDRESS CARD KIT

The kit you have just purchased consists of:

- 1 address card (type EKAC10B)
- 1 connection wire to controller
- 1 connection wire + 1 connection wire with fuse (power supply)
- 1 omega rail + 2 screws

DESCRIPTION OF THE ADDRESS CARD

Measurements

(refer to [figure 1](#))

Connections on the address card

There are three connections to be made:

- to the chiller's controller
- power supply
- if the kit is used in combination with gateway, connect to the serial line of the gateway
OR
if the kit is used in combination with the remote user interface, connect to the remote user interface



Before starting up the unit for the first time, make sure that it has been properly installed. It is therefore necessary to read the installation manual supplied with the unit and the recommendations listed in "Checks before initial start-up" carefully.

HOW TO INSTALL THE ADDRESS CARD?



Turn the power off before installing the address card.

Install the address card

For range 3 and 4 only

Install the omega rail on the foreseen space

range 3, refer to [figure 5a](#)

range 4, refer to [figure 5b](#)

For all ranges

(refer to [figure 2](#))

Place the address card on the upper side of the omega rail, then push the bottom side of the address card until you hear a clicking sound. The address card is now locked onto the omega rail.

If you want to remove the address card because it was installed incorrectly, follow this procedure:

- 1 Pull down the grey lip at the bottom of the address card, using a screwdriver.
- 2 Keep the lip down and pull the bottom side of the address card backwards.
- 3 Raise the address card and release the lip.

Connect the address card to the controller

(refer to figure 3)

Use the grey connection wire to connect the address card to the controller.

- 1 Push the crimp terminal of the connection wire in the 7-pin header on the upper side of the address card.
- 2 Unplug the wire in the right upper corner at the back of the controller. This way you will create enough space to plug in the connection wire.
- 3 Push the crimp terminal on the other side of the connection wire in the 7-pin header at the back of the controller. The 7-pin header is called the serial line on the figure at the top of the controller.
- 4 Plug in the wire you removed to create enough space back in the top right corner at the back of the controller.

Connect the address card to the transfo

For ranges 1 and 2 only

(refer to figure 4a)

Use the connection wire and the connection wire with fuse to connect the address card to the transfo.

- 1 Connect screw connection 11 G0 on the address card to terminal 50 on the main rail. Use the supplied connection wire without fuse.
- 2 Connect screw connection 12 G on the address card to terminal 51 on the main rail. Use the supplied connection wire with fuse.

For ranges 3, 4 and 5 only

(refer to figure 4b)

- 1 Connect screw connection 11 G0 on the address card to terminal G0 on the I/O PCB. Use the supplied connection wire without fuse.
- 2 Connect screw connection 12 G on the address card to terminal G on the I/O PCB. Use the supplied connection wire with fuse.

HOW TO OPERATE THE ADDRESS CARD WITH THE GATEWAY?

Connect the address card to the gateway or to a different address card

You have two possibilities:

- If the chiller is the first in line or the only one to connect to a gateway, connect it to the gateway directly.
- If the chiller is a chiller in line and not the first one in line, connect it to another chiller.

For more information, consult the following documents:

- The chiller operation manual: Defining the unit's serial address.
- Installation manual of gateway.
- Operation manual of gateway.

HOW TO OPERATE THE ADDRESS CARD WITH THE REMOTE USER INTERFACE?

Read more on this in the installation manual of the remote user interface EKRUMC.

THE VARIABLES DATABASE only for use with Gateway

The BMS or supervisory system and the address card communicate through a fixed set of variables, also called address numbers. Hereafter, you will find the information you need about the digital, integer and analog variables that the BMS or supervisory system can read from or write to the chiller's address card.



NOTE For the possible values of a direct or user parameter, refer to the chiller operation manual.

Digital variables

Address	Read/Write	Parameter			Comment		
		Direct/User	Name	Description	Air cooled chillers	Air cooled chillers	Water cooled chillers Remote Condenser
1	r/w			Cooling or heating	1 = cooling, 0 = heating		
2	r/w			On or off	1 = on, 0 = off		
5	r		H1	Alarm: high pressure or discharge protector or overcurrent	1 = alarm, 0 = no alarm		
6	r		L1	Alarm: evaporating temperature thermostat	1 = alarm, 0 = no alarm		
8	r		FL	Alarm: flow switch	1 = alarm, 0 = no alarm		
9	r		E3	Alarm	Ambient temperature (a)	Coil temperature (a)	Water condenser inlet temperature
10	r		E2	Alarm	Water evaporator outlet temperature		
11	r		E1	Alarm	Water evaporator inlet temperature		
12	r		n1	Warning: compressor requires maintenance	1 = warning, 0 = no warning		
13	r		EP	Alarm: EEPROM defective	1 = alarm, 0 = no alarm		
14	r		EE	Alarm: EEPROM defective	1 = alarm, 0 = no alarm		

(a) Only if model is mentioned in range 1

Address	Read/Write	Parameter			Comment		
		Direct/User	Name	Description	Air cooled chillers ❄️	Air cooled chillers ☀️	Water cooled chillers ❄️/☀️ Remote Condenser
15	r		EL	Alarm: power supply has remarkable noise	1 = alarm, 0 = no alarm		
17	r		d1	Defrost cycle	1 = active, 0 = not active		
18	r		r1	Warning: defrost cycle not completed	1 = warning, 0 = no warning		
19	r		A1	Alarm: anti-freeze	1 = alarm, 0 = no alarm		
21	r		EO	Alarm: supply voltage is high	1 = alarm, 0 = no alarm		
22	r		EU	Alarm: supply voltage is low	1 = alarm, 0 = no alarm		
25	r			Output of pump	1 = on, 0 = off		
26	r			Output of compressor 1	1 = on, 0 = off		
28	r			Output of reversing valve	—	1 = on, 0 = off	
29	r			Output of alarm	1 = on, 0 = off		
30	r			Output of fan	1 = on, 0 = off ^(a)		—
31	r			Input of high pressure or discharge protector or overcurrent alarm	1 = closed, 0 = open		
32	r			Input of low pressure switch alarm	1 = closed, 0 = open		
33	r			Input of remote on/off	1 = closed, 0 = open		
34	r			Output of compressor 2 ^(b)	1 = on, 0 = off		
40	r/w		/d	Measurement unit of temperature	0 = °C, 1 = °F		
47	r/w		H7	Enable/disable "remote on/off" digital input	1 = enable, 0 = disable		
55	r/w		H6	Enable/disable "remote cooling/heating" digital input	1 = enable, 0 = disable		
57	r		n2	Warning: compressor 2 requires maintenance ^(b)	1 = warning, 0 = no warning		

- (a) Only if model is mentioned in range 1
(b) Only available for units with 2 circuits

Integer variables

Address	Read/Write	Parameter			Comment Unit of measurement
		Direct/User	Name	Description	
12	r/w	U	c7	Time delay between the pump startup and compressor startup	Seconds
13	r/w	U	c8	Time delay between unit shutdown and the pump shutdown	Minutes
14	r	D	c9	Total running hours of the compressor 1	Hours x 100
15	r/w	U	cb	Timer threshold for maintenance warning	Hours x 100
16	r	D	cC	Total running hours of the pump	Hours x 100
32	r/w	U	P4	Enable or disable buzzer	
38	r/w	U	H9	Lock of user & direct parameters	0 = keyboard disabled, 1 = keyboard enabled
39	r	U	HA	Serial address	
51	r	U	Hg	Software release	
55	r	D	cA	Total running hours of the compressor 2 ^(a)	Hours x 100

- (a) Only available for units with 2 circuits

Analog variables (Unit of measurement: °C x 1/10)

Address	Read/Write	Parameter			Comment		
		Direct/User	Name	Description	Air cooled chillers ❄️	Air cooled chillers ☀️	Water cooled chillers ❄️/☀️ Remote Condenser
1	r			Analog input 1	Water evaporator inlet temperature		
2	r			Analog input 2	Water evaporator outlet temperature		
3	r			Analog input 3	Ambient temperature ^(a)	Coil temperature ^(a)	Water condenser inlet temperature
10	r/w	D	r1	Cooling setpoint			
11	r/w	D	r2	Cooling difference			
12	r/w	D	r3	Heating setpoint	—		
13	r/w	D	r4	Heating difference	—		

- (a) Only if model is mentioned in range 1

DAIKIN EUROPE NV

Zandvoordestraat 300, B-8400 Oostende, Belgium

4PWEN16026-1A