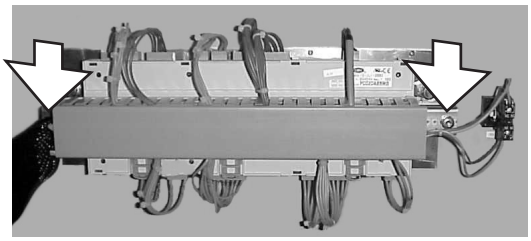
DAIKIN

INSTALLATION MANUAL

Address card

EKAC200A



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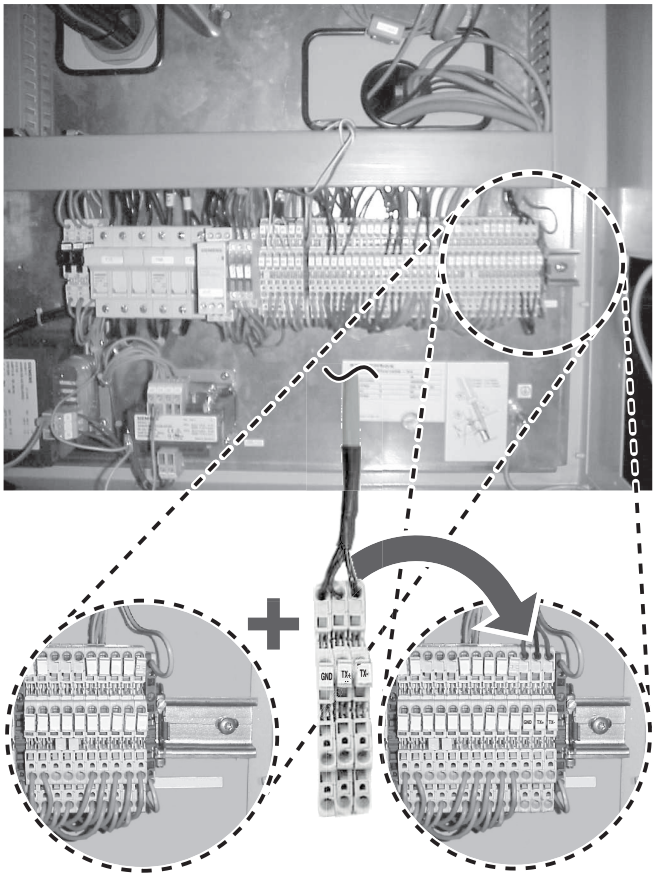

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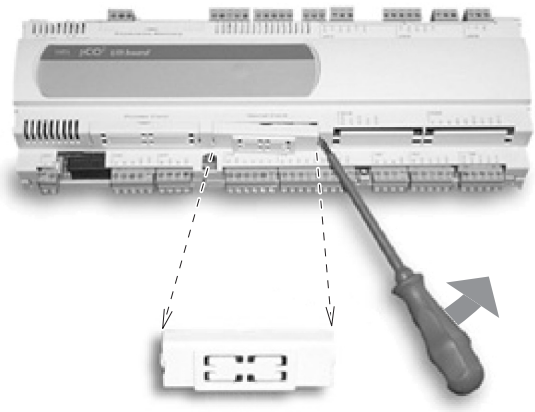

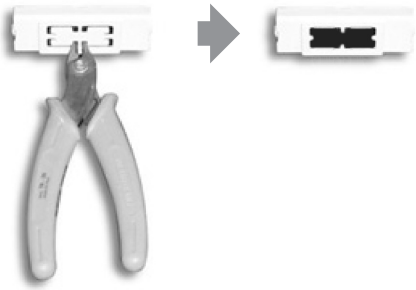

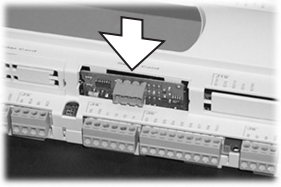

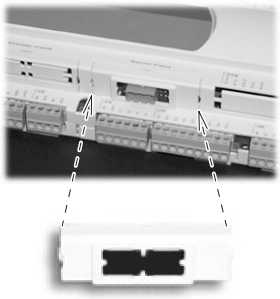

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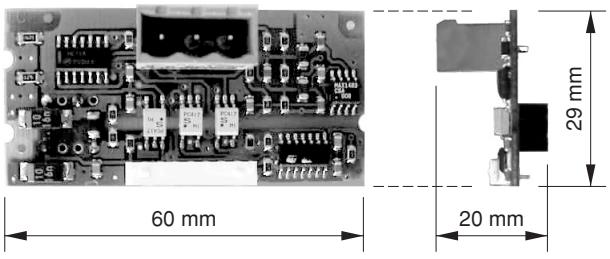

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READ THIS MANUAL ATTENTIVELY BEFORE STARTING UP THE UNIT. DO NOT THROW IT AWAY. KEEP IT IN YOUR FILES FOR FUTURE REFERENCE.

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 EKAC200A 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.

Chiller range

This specific address card is designed to function with chillers of the range

- ER(*)40~60MZ, ERAP110~170MBYNN,
- EUWA(*)40~200MZ, EWAP110~540MBYNN,
- EUW(*)40~200M(A)X, EWWD120~540MBYNN,
- EUWL(*)40~200MX, EWLD120~540MBYNN.

(*) = A, B, C, ...Z

Your address card kit

The kit you have just purchased consists of:

- 1 address card (type EKAC200A) with connector
- 1 connection wire with three connected terminals

Screw connector	Wire	Terminal
GROUND	black	Terminal GND
RX+/TX+	black	Terminal TX+
RX–/TX–	black	Terminal TX–

Description of the address card

Measurements

See figure 4.

Connection to the chiller

The connection is made automatically when you insert the address card into the PCB. The connection occurs through three pins:

Pin	Meaning
1	Ground
2	RX+/TX+
3	RX–/TX–

Before you handle the address card

If handled inappropriately, your address card may suffer damage. Hold your address card by the edges. Never touch the rear end of the card with your hands.

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

1 Remove the controller, loosen the two bolts. (See figure 1)

2 Install the address card. (See figure 2)
- **Step 1**: Remove the cover. Use a screwdriver to unplug it.
- **Step 2**: Remove the knock-out hole on the cover using a wire-cutter.
- **Step 3**: Install the address card frimly by pushing it vertically into the controller.
- **Step 4**: Place the cover back on the controller.

3 Put the controller back in place and fasten the two bolts. (See figure 1)

Connect the address card to the controller

1 Install the three terminals on the main rail. (See figure 3)
- **Step 1**: Shift the ground terminal and endstop to the right.
- **Step 2**: Install the three terminals by clicking them onto the main rail. Keep the GND, TX+ and TX– in that order.
- **Step 3**: Shift the ground terminal and endstop back in place and fix them securely.

2 Plug in the wire into the address card on the controller.

3 Put the wire into the cable duct.

Connect the field rail to the gateway or to the other address card

There are 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.

Read more on this in the installation manual of the gateway.

How to operate the address card?

For more information, consult the following documents:

- The chiller installation manual: installing BMS address card + defining the BMS settings.
- Installation manual of gateway.
- Operation manual of gateway.

The variables database

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.

Throughout the variables database the markers * and ** are used to specify to what specified unit range the marked description or comment is applicable.

- * for ER, EUWA, EUW and EUWL only
- ** for ERAP, EWAD, EWWD and EWLD only
- none when applicable to all unit ranges

Digital variables

Address	Read/ Write	Description	* / **	Comment ER / ERAP	EUWA / EWAP	EUW / EWWD	EUWL / EWLD
1	R	Unit status: monitoring		0 = Off, 1 = On			
2	W	Unit status: control		If 1 is written then toggle status of unit. (after this action the controller reset this parameter)			
3	R	Remote On/off enabled		0= No, 1 = Yes (Yes if changeable digital inputs 'REMOTE ON/OFF" is selected)			
4	R	General Alarm		0 = no alarm, 1 = alarm			
5	R	General Unit alarm		0 = no alarm, 1 = alarm			
6	R	General Circuit 1 alarm		0 = no alarm, 1 = alarm			
7	R	General Circuit 2 alarm		0 = no alarm, 1 = alarm			
8	R	—		—			
9	R	General Network alarm		0 = no alarm, 1 = alarm			
10	R	General Warning alarm		0 = no alarm, 1 = alarm			
11	R	DI1 (0 = open, 1 = closed)		High pressure switch C1			
12	R	DI2		Reverse phase protector C1			
13	R	DI3		Overcurrent relay C1			
14	R	DI4		Discharge thermal protector C1			
15	R	DI5		Compressor thermal protector C1			
16	R	DI6		Emergency stop			
17	R	DI7	*	Flowswitch			
			**	Flowswitch		Flowswitch C1	
18	R	DI8		Changeable Input 1			
19	R	DI9		Changeable Input 2			
20	R	DI10		Changeable Input 3			
21	R	DI11	*	Active 25% load[a]	Changeable Input 4		
			**	Changeable Input 4			
22	R	DI12	*	Active 40% load	High pressure switch C2[b]		
			**	—	High pressure switch C2[b]		
23	R	DI13	*	Active 70% load	Reverse phase protector C2[b]		
			**	—	Reverse phase protector C2[b]		
24	R	DI14	*	Active 100% load	Overcurrent relay C2[b]		
			**	—	Overcurrent relay C2[b]		
25	R	DI15		—	Discharge thermal protector C2[b]		
26	R	DI16		—	Compressor thermal protector C2[b]		
27	R	DI17		—			
28	R	DI18		—			
29	R	DO1		Compressor star C1			
30	R	DO2		Compressor delta C1			
31	R	DO3		Compressor on C1			
32	R	DO4		12% C1			
33	R	DO5	*	40% C1			
			**	—			
34	R	DO6	*	70% C1			
			**	—			
35	R	DO7		General situation of alarm			
36	R	DO8		Air/water flowcontact	Pump		
37	R	DO9	*	Fanstep 1 of C1	Refer to "Detail digital variables for EUWA units", or to "Detail digital variables for EWAP units" on page 5.	25% C1[a]	Fanstep 1 of C1
			**			—	
38	R	DO10	*	Fanstep 2 of C1		25% C2[a][b]	Fanstep 2 of C1
			**			—	
39	R	DO11	*	Fanstep 3 of C1		70% C2[b]	Fanstep 3 of C1
			**			—	
40	R	DO12		Evaporator heatertape		Changeable output 1	
41	R	DO13		Changeable output 2			
42	R	DO14		—	Compressor star C2[b]		
43	R	DO15		—	Compressor delta C2[b]		
44	R	DO16		—	Compressor on C2[b]		
45	R	DO17		—	12% C2[b]		
46	R	DO18	*	—	40% C2[b]		
			**	—	—		

(a) Only available if circuit has 25% capacity step.
(b) Only available for units with 2 circuits.

Address	Read/ Write	Description		Comment			
			*	ER	EUWA	EUW	EUWL
			**	ERAP	EWAP	EWWD	EWLD
47	R	AO1[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5	—	25% C1[b]
			**	C1 control motor upload			
48	R	AO2[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5	—	70% C2[c]
			**	C1 control motor download			
49	R	AO3[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5.	—	25% C2[b]
			**		C2 control motor upload[c]		
50	R	AO4[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5.	—	Fanstep 1 of C2[c]
			**		C2 control motor download[c]		
51	R	AO5[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5	—	Fanstep 2 of C2[c]
			**		—		—
52	R	AO6[a]	*	—	Refer to "Detail digital variables for EUWA units" on page 5	—	Fanstep 3 of C2[c]
			**		—		—
53	R	25% Capacity Coils C1	*	0 = no, 1 = yes			
		—	**	—			
54	R	25% Capacity Coils C2[c]	*	0 = no, 1 = yes			
		—	**	—			
55	R	EEV1[d]		0 = no, 1 = yes			
56	R	EEV2[c][d]		0 = no, 1 = yes			
57	R	High pressure setback active C1		0 = no, 1 = yes			
58	R	High pressure setback active C2[c]		0 = no, 1 = yes			
59	R	Low pressure bypass C1 active	only if software version ≥V3.0M6	0 = no, 1 = yes			
60	R	Low pressure bypass C2 active[c]		0 = no, 1 = yes			
61	R	Maximum fan output C1 active[e]		0 = no, 1 = yes			
62	R	Maximum fan output C2 active[c][e]		0 = no, 1 = yes			
63	R	Freeze up prevention C1 active		0 = no, 1 = yes			
64	R	Freeze up prevention C2 active[c]		0 = no, 1 = yes			
65	R	Low noise status		0 = no, 1 = yes			
66	R	A11P:DO1	**	—	Refer to "Detail digital variables for EUWA units" on page 5.	—	Fanstep 1 of C2
67	R	A11P:DO2	**	—		—	Fanstep 2 of C2
68	R	A11P:DO3	**	—		—	Fanstep 3 of C2
69	R	A11P:DO4	**	—	—	—	—
70	R	A11P:DI1	**	—	—	Flowswitch C2[c]	
71	R	A11P:DI2	**	—	—	—	—
72	R	A11P:DI3	**	—	—	—	—
73	R	A11P:DI4	**	—	—	—	—

(a) Analog output used as digital output.
(b) Only available if circuit has 25% capacity step.
(c) Only available for units with 2 circuits.
(d) EEV = Electronic Expansion Valve.
(e) Only available if circuit has inverter fans.

Detail digital variables for EUWA units

(Address 37~39, 47~52)

Address	Read/ Write	Description	Fans = non inverter	Fans = inverter	
				Units with 1 circuit	Units with 2 circuits
37	R	DO9	Fanstep 1 of C1	Fanstep on-off of C1	25% C1
38	R	DO10	Fanstep 2 of C1	—	25% C2
39	R	DO11	Fanstep 3 of C1	—	70% C2
47	R	AO1(a)	25% C1(b)	25% C1(b)	Fanstep on-off of C1
48	R	AO2(a)	70% C2(c)	—	—
49	R	AO3(a)	25% C2(b)(c)	—	—
50	R	AO4(a)	Fanstep 1 of C2(c)	—	Fanstep on-off of C2
51	R	AO5(a)	Fanstep 2 of C2(c)	—	—
52	R	AO6(a)	Fanstep 3 of C2(c)	—	—

(a) Analog output used as digital output
(b) Only available if circuit has 25% capacity step
(c) Only available for units with 2 circuits

Detail digital variables for EWAP units

(Adress 37~39, 66~68)

Address	Read/ Write	Description	Fans = non inverter	Fans = inverter
37	R	DO9	Fanstep 1 of C1	Fanstep on-off of C1
38	R	DO10	Fanstep 2 of C1	—
39	R	DO11	Fanstep 3 of C1	—
66	R	A11P:DO1	Fanstep 1 of C2	Fanstep on-off of C2
67	R	A11P:DO2	Fanstep 2 of C2	—
68	R	A11P:DO3	Fanstep 3 of C2	—

Integer variables

Address	Read/ Write	Description	Unit of measurement		Comment			
				*	ER	EUWA	EUW	EUWL
				**	ERAP	EWAP	EWWD	EWLD
1	R	BMS allowed			0 = N, 1 = Y			
2	R	Malfunction code of unit safety			0 = no safety, 1 = "F0", 2 = "AE", … (refer to overview)			
3	R	Malfunction code of C1 safety			0 = no safety, 1 = "U1", 2 = "E3", … (refer to overview)			
4	R	Malfunction code of C2 safety			0 = no safety, 1 = "U1", 2 = "E3", … (refer to overview)			
5	R	—			0 = no safety, 1 = "U1", 2 = "E3", … (refer to overview)			
6	R	Malfunction code of network safety			0 = no safety, 1 = "U4", 2 = "CA", … (refer to overview)			
7	R	Malfunction code of warning			0 = no safety, 1 = "AE", 2 = "A9", … (refer to overview)			
8	R/W	Cooling/Heating mode setting			—	—	0 = "COOLING (EVAP)" 1 = "HEATING (COND)" 2 = "DOUBLE THERM" (only if no remote C/H)	—
9	R/W	Running mode		*	0 = "MANUAL CONTROL" 3 = "EXTERNAL THERM."	0 = "MANUAL CONTROL" 1 = "INL WATER STEP" 2 = "OUTL WATER STEP"		
				**	0 = "MANUAL CONTROL" 4 = "THERMOSTAT"	0 = "MANUAL CONTROL" 1 = "INL WATER" 2 = "OUTL WATER"		
10	R	Active mode		*	0 = "MANUAL MODE", 1 = "INLSETP1 E: ", 2 = "INLSETP2 E: ", 3 = "OUTSETP1 E: ", 4 = "OUTSETP2 E: ", 5 = "INLSETP1 C: ", 6 = "INLSETP2 C: ", 7 = "SP1E: C:", 8 = "SP2E: C:", 9 = "THERMOSTAT"			
				**	0 = "MANUAL MODE", 1 = "INLSETP1 E: ", 2 = "INLSETP2 E: ", 3 = "OUTSETP1 E: ", 4 = "OUTSETP2 E: ", 5 = "INLSETP1 C: ", 6 = "INLSETP2 C: ", 7 = "SP1E: C:", 8 = "SP2E: C:", 10 = "SETPOINT1:", 11 = "SETPOINT2:"			
11	R	Actual thermostat step		*				
		Capacity C1	%	**				
12	R	Maximum number of thermostat step		*				
		Capacity C2	%	**				

Address	Read/ Write	Description	Unit of measurement	* / **	Comment ER / EUWA / EUW / EUWL — ERAP / EWAP / EWWD / EWLD
13	R	Status of circuit 1		*	0 = "OFF-CAN STARTUP", 1 = "OFF-TIMER BUSY", 2 = "ON – 12% STAR", 3 = "ON – 12% DELTA ", 4 = "ON – 25% DELTA", 5 = "ON – 40% DELTA", 6 = "ON – 70% DELTA", 7 = "ON – 100% DELTA", 8 = "ON – 25% (LIMIT)", 9 = "ON – 40% (LIMIT)", 10 = "ON – 70% (LIMIT)", 11 = "ON – 100% (LIMIT)", 12 = "OFF – 0% (LIMIT)", 13 = "OFF-FREEZE UP DIS", 14 = "OFF-SAFETY ACTIVE" 15 = "ON – 12% SHEAT REC", 16 = "ON – 12% DHEAT REC", 17 = "ON – 25% HEAT REC", 18 = "ON – 40% HEAT REC", 19 = "ON – 70% HEAT REC", 20 = "ON – 100% HEAT REC"
14	R	Status of circuit 2		**	0 = "OFF-CAN STARTUP", 1 = "OFF-TIMER BUSY", 2 = "ON – % STAR", 3 = "ON – % DELTA ", 8 = "ON – % (LIMIT)", 12 = "OFF – % (LIMIT)", 13 = "OFF-FREEZE UP DIS", 14 = "OFF-SAFETY ACTIVE" 15 = "ON – % SHEAT REC", 16 = "ON – % DHEAT REC",
15	R	Running hours compressor 1 (Higher part)	hx1000		Running hours = Higher part x 1000 + Lower part
16	R	Running hours compressor 1 (Lower part)	h		
17	R	Running hours compressor 2 (Higher part)[a]	hx1000		
18	R	Running hours compressor 2 (Lower part)[a]	h		
19	R	Actual fan1 step			If fans = none inverter 0 = "OFF", 1 = "LOW", 2 = "MED", 3 = "HIGH" if fans = inverter then value = Fan onoff + Fan inverter example: 0% = (Fan onoff = off) + (Fan inverter = 00 Hz) example: 100% = (Fan onoff = on) + (Fan inverter = 50 Hz)
20	R	Actual fan2 step[a]			
21	R/W	Manual setting of compressor 1		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3= "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"
			%	**	0, 30~100
22	R/W	Manual setting of compressor 2[a]		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3= "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"
			%	**	0, 30~100
23	R/W	Manual setting of fans C1			If fans = none inverter 0 = "OFF", 1 = "LOW", 2 = "MED", 3 = "HIGH" if fans = inverter then value = Fan onoff + Fan inverter example: 0% = (Fan onoff = off) + (Fan inverter = 00 Hz) example: 100% = (Fan onoff = on) + (Fan inverter = 50 Hz)
24	R/W	Manual setting of fans C2			
25	R/W	Loadup time in inlet control	s	*	
			sx 12	**	
26	R/W	Loaddown time in inlet control	s	*	
			sx 12	**	
27	R/W	Loadup time in outlet control	s	*	
			sx 12	**	
28	R/W	Loaddown time in outlet control	s	*	
			sx 12	**	
29	R/W	DICN: Nr Of Slaves[b]			
30	R	DICN: Master or slave[b]			0 = Master, 1 = Slave1, 2 = Slave2, 3 = Slave3
31	R/W	DICN: Mode[b]			0 = "NORMAL",1 = "STANDBY", 2 = "DISCONN. ON/OFF"
32	R	DICN: Status of master[b]			0 = "NORMAL",1 = "STANDBY", 2 = "DISCONN.", 3 = "SAFETY"
33	R	DICN: Status of S1[b]			0 = "NORMAL",1 = "STANDBY", 2 = "DISCONN.", 3 = "SAFETY"
34	R	DICN: Status of S2[b]			0 = "NORMAL",1 = "STANDBY", 2 = "DISCONN.", 3 = "SAFETY"
35	R	DICN: Status of S3[b]			0 = "NORMAL",1 = "STANDBY", 2 = "DISCONN.", 3 = "SAFETY"
36	R	EEV1 Status[c]			0 = "NO WARNINGS",1 = "VALVE OPEN", 2 = "BATTERY CHARGED", 3 = "EEPROM ERR."
37	R	EEV2 Status[c]			0 = "NO WARNINGS",1 = "VALVE OPEN", 2 = "BATTERY CHARGED", 3 = "EEPROM ERR."
38	R	EEV1 Battery Status[c]		*	0 = "DISCONNECTED",1 = "HIGH INT.RES.", 2 = "NOT RECHARGE", 3 = "DOWN", 4 = "OK"
39	R	EEV2 Battery Status[c]		*	0 = "DISCONNECTED",1 = "HIGH INT.RES.", 2 = "NOT RECHARGE", 3 = "DOWN", 4 = "OK"
40	R	Unittype1			0 = "AW", 1 = "WW"
41	R	Unittype2			0 = "CO", 1 = "HO", 2 = "HR", 3 = "RH", 4 = "HP", 5 = "RC", 6 = "CA"

(a) Only available for units with 2 circuits
(b) DICN = Daikin Integrated Chiller Network
(c) EEV = Electronic Expansion Valve

Address	Read/ Write	Description	Unit of measurement		Comment			
				*	ER	EUWA	EUW	EUWL
				**	ERAP	EWAP	EWWD	EWLD
42	R	Unittype3		*	0 = "40",1 = "50", 2 = "60", 3 = "80", 4 = "100", 5 = "120", 6 = "140", 7 = "160", 8 = "180", 9 = "200"			
				**	ERAP: 0 = "110", 1 = "140", 2 = "170" EWAP: 0 = "110", 1 = "140", 2 = "160", 3 = "200", 4 = "280", 5 = "340", 7 = "400", 8 = "460", 9 = "540" EWAD: 0 = "120", 1 = "150", 2 = "170", 3 = "240", 4 = "300", 5 = "340" EWWD: 0 = "120", 2 = "180", 3 = "240", 4 = "280", 5 = "360", 6 = "440", 7 = "500", 8 = "520", 9 = "540" EWLD: 0 = "120", 2 = "170", 3 = "240", 4 = "260", 5 = "340", 6 = "400", 7 = "480", 8 = "500", 9 = "540"			
43	R	Number of circuits						
44	R	Number of Evaporators						
45	R	Refrigerant			0 = "R134a", 1 = "R407C"			
46	R	Minimum outlet water	only if software version <V3.0M6	*	0 = "8°C", 1 = "5°C", 2 = "4°C", 3 = "2°C", 4 = "0°C", 5 = "–5°C", 6 = "–10°C"			
47	R/W	Limitation 1 setting of C1		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
48	R/W	Limitation 1 setting of C2[(a)]		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
49	R/W	Limitation 2 setting of C1		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
50	R/W	Limitation 2 setting of C2[(a)]		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
51	R/W	Limitation 3 setting of C1		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
52	R/W	Limitation 3 setting of C2[(a)]		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
53	R/W	Limitation 4 setting of C1		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
54	R/W	Limitation 4 setting of C2[(a)]		*	If 25% = Yes 0 = "0%", 1 = "25%", 2 = "40%", 3 = "70%", 4 = "100%" If 25% = No 0 = "0%", 1 = "40%", 2 = "70%", 3 = "100%"			
			%	**	0, 30~100			
55	R/W	Limitation mode	only if software version ≥V3.0M6		0 = "REMOTE DIG INP.", 1 = "SCHEDULE TIMER", 2 = "LIM1", 3 = "NOT ACTIVE"			
56	R/W	Low noise mode			0 = "CH.DI", 1 = "SCH.T", 2 = "YES", 3 = "NO"			
57	R/W	Number of compressor 1 starts (Higher part)			Number of compressor starts = Higher part x 1000 + Lower part			
58	R/W	Number of compressor 1 starts (Lower part)						
59	R/W	Number of compressor 2 starts (Higher part)[(a)]						
60	R/W	Number of compressor 2 starts (Lower part)[(a)]						

(a) Only available for unit with 2 circuits

Address	Read/ Write	Description	Unit of measurement		Comment			
				*	ER	EUWA	EUW	EUWL
				**	ERAP	EWAP	EWWD	EWLD
101	R	Software code			1 = "FLDKNMCH0A", 2 = "FLDKNMCHLA"			
102	R	Software version high			Software version = V SoftVersionHigh.SoftVersionLow			
103	R	Software version low			Software version = V SoftVersionHigh.SoftVersionLow			
104	R	Boot version high			Bootversion = V BootVersionHigh.BootVersionLow			
105	R	Boot version low			Bootversion = V BootVersionHigh.BootVersionLow			
106	R	Bios version high			Bios version = V BiosVersionHigh.BiosVersionLow			
107	R	Bios version low			Bios version = V BiosVersionHigh.BiosVersionLow			
108	R	EEV1 Software version[a]						
109	R	EEV1 Hardware version[a]						
110	R	EEV2 Software version[a]						
111	R	EEV2 Hardware version[a]						

(a) EEV = Electronic Expansion Valve

Analog variables

Address	Read/ Write	Description	Unit of measurement		Comment			
				*	ER	EUWA	EUW	EUWL
				**	ERAP	EWAP	EWWD	EWLD
1	R	Analog input 1	bar x 1/10		High pressure C1			
2	R	Analog input 2 (or AI of EEV[a])	bar x 1/10		Low pressure C1			
3	R	Analog input 3	°C x 1/10 or mV or V x 1/10 or mA	*	—	If software version < V3.0M6 Evaporator Outlet water sensor DICN[b] (optional on Master) If software version ≥ V3.0M6 Changeable Analog input 1 Possible settings of changeable Analog input 1: - Evaporator outlet water sensor DICN[b] (optional on Master) - Setpoint signal (mV/V/mA) - Heat recovery condensor inlet water[c]		
				**	Changeable AI1 Possible settings of changeable AI1: - Setpoint signal (mV/V/mA) - Heat recovery condensor inlet water[c]			
					—	Evaporator outlet water sensor DICN (optional on Master)		
4	R	Analog input 4	°C x 1/10		—	Evaporator Inlet water sensor		
5	R	Analog input 5	°C x 1/10	*	—	Evaporator mixed outlet temperature		
			°C x 1/10	**	Thermostat sensor	Evaporator mixed outlet temperature		
6	R	Analog input 6	°C x 1/10		Ambient	Ambient	Condenser Inlet water sensor	Ambient
7	R	Analog input 7	bar x 1/10	*	—	High pressure C2[d]		
			Ω x 1/10 or bar x 1/10	**	C1 capacity feedback	1 circ units: C1 capacity feedback 2 circ units: High pressure C2[d]		
8	R	Analog input 8 (or AI of EEV[a])	bar x 1/10		—	Low pressure C2[d]		
9	R	Analog input 9	°C x 1/10		—	Evaporator Outlet water sensor C1		
10	R	Analog input 10			—	Evaporator Outlet water sensor C2[d]		
11	R	AI1 converted in °C						
12	R	AI2 converted in °C (or AI of EEV[a])						
13	R	AI7 converted in °C						
14	R	AI8 converted in °C (or AI of EEV[a])						
15	R	Active inlet evaporator setpoint						
16	R	Active outlet evaporator setpoint		*				
		—		**	Active setpoint	Active outlet evaporator setpoint		
17	R	Active inlet condensor setpoint						
18	R/W	Inlet setpoint 1 Evaporator						
19	R/W	Inlet setpoint 2 Evaporator						
20	R/W	Outlet setpoint 1 Evaporator		*				
		—		**	Setpoint 1	Outlet setpoint 1 evaporator		
21	R/W	Outlet setpoint 2 Evaporator		*				
		—		**	Setpoint 2	Outlet setpoint 2 evaporator		

(a) EEV = Electronic Expansion Valve
(b) DICN = Daikin Integrated Chiller Network
(c) Only for heat recovery units
(d) Only available for units with 2 circuits

Address	Read/ Write	Description	Unit of measurement	*	Comment ER	EUWA	EUW	EUWL
				**	ERAP	EWAP	EWWD	EWLD
22	R/W	Inlet setpoint 1 Condensor						
23	R/W	Inlet setpoint 2 Condensor						
24	R/W	Step length inlet control						
25	R/W	Step length outlet control						
26	R/W	Step difference outlet						
27	R	Analog Output 1	V x 1/10		—	—	—	—
28	R	Analog Output 2	V x 1/10	*	—	Fan inverter C1(a)	—	—
				**	—	—	—	—
29	R	Analog Output 3	V x 1/10	*	—	Fan inverter C2(a)(b)	—	—
				**	—	—	—	—
30	R	Analog Output 4	V x 1/10		—	—	—	—
31	R	Analog Output 5	V x 1/10	*	—	—	—	—
				**	—	Fan inverter C1(a)		
32	R	Analog Output 6	V x 1/10	*	—	—	—	—
				**		Fan inverter C2(a)(b)	—	—
33	R	Minimum outlet water	°C x 1/10					
34	R	Heat recovery inlet setpoint condensor(c)						
35	R/W	Heat recovery inlet difference condensor(c)						
36	R	A11P: AI1	Ω x 1/10	**	—	2 circuit units: C1 capacity feedback(b)		
37	R	A11P: AI2		**	—	2 circuit units: C2 capacity feedback(b)		
38	R	A11P: AI3		**	—			
39	R	A11P: AI4		**	—			

(a) Only available if circuit has inverter fans
(b) Only available for units with 2 circuits
(c) Only for heat recovery units

Overview integer values of safety codes

Integer adress	Value	Message safety menu	
2: Malfunction code of unit safety	1	"0F0:EMERGENCY STOP"	
	2	"0AE:FLOW HAS STOPPED"	
	3	"0A4:FREEZE UP"	
	4	"0C9:INL E SENSOR ERR"	
	5	"0CA:OUT E SENSOR ERR"	
	6	"0H9:AMB T SENSOR ERR"	
	7	"0HC:INL C SENSOR ERR"	
	8	"0HC:HR INL C SENSOR ERR"	
	9[a]	"0U4: PCB EXP COMM.ERR"	
	10[a]	"0CJ: THERM SENSOR ERR"	
3: Malfunction code of C1 safety 4: Malfunction code of C2 safety		**Circuit safety 1**	**Circuit safety 2**
	1	"1U1:REV PHASE PROT"	"2U1:REV PHASE PROT"
	2	"1E3:HIGH PRESSURE SW"	"2E3:HIGH PRESSURE SW"
	3	"1E5:COMPR THERM PROT"	"2E5:COMPR THERM PROT"
	4	"1E6:OVERCURRENT"	"2E6:OVERCURRENT"
	5	"1F3:DISCH THERM PROT"	"2F3:DISCH THERM PROT"
	6	"1E4:LOW PRESSURE"	"2E4:LOW PRESSURE"
	7	"1A4:FREEZE UP"	"2A4:FREEZE UP"
	8	"1JA:HP TRANSM ERR"	"2JA:HP TRANSM ERR"
	9	"1JC:LP TRANSM ERR"	"2JC:LP TRANSM ERR"
	10	"1CA:OUT E SENSOR ERR"	"2CA:OUT E SENSOR ERR"
	11	"(1A9: EEV *** ERR)"[b] "1A9:EEV DRIVER ERROR" "1A9:EEV NOT CLOSED" "1A9:EEV SUPERHEAT ER" "1A9:EEV HIGH PRESSURE" "1A9:EEV EEPROM ERR" "1A9:EEV ST.MOTOR ERR" "1A9:EEV PROBE ERR"	"(2A9: EEV *** ERR)"[b] "2A9:EEV DRIVER ERROR" "2A9:EEV NOT CLOSED" "2A9:EEV SUPERHEAT ER" "2A9:EEV HIGH PRESSURE" "2A9:EEV EEPROM ERR" "2A9:EEV ST.MOTOR ERR" "2A9:EEV PROBE ERR"
	12[a]	"193: CONTR. MOTOR ERR"	"293: CONTR. MOTOR ERR"
	13[a]	"194: CONTR. MOTOR REV"	"294: CONTR. MOTOR REV"
	14[a]	"1AE: FLOW HAS STOPPED"	"2AE: FLOW HAS STOPPED"
	15[a]	"153: FAN INV ERR.	"253: FAN INV ERR."
6: Malfunction code of network safety	1	"0U4:PCB COMM.PROBLEM"	
	2	"0CA:OUT E SENSOR ERR"	
	3	"0C9:INL E SENSOR ERR"	
7: Malfunction code of warning	1	"0AE:FLOW HAS STOPPED"	
	2	"1A9:EEV BATTERY ERR"[b]	
	3	"2A9:EEV BATTERY ERR"[b]	
	4	"153:FAN INV ERR"	
	5	"253:FAN INV ERR"	

(a) Only for ERAP, EWAP, EWWD, EWLD.
(b) EEV = Electronic Expansion Valve

NOTES

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