EVY Cold MEDIUM

Controllers for refrigerated cabinets and display units





- controllers for normal or low temperature units
- power supply 12... 24 Vdc
- 3 analogue inputs for configurable PTC, NTC or Pt 1000 probes
- door switch digital input
- 4 multi-purpose digital inputs
- management of variable capacity PWM compressors (Embraco, Secop and Tecumseh), rather than variable capacity compressors or 0-10 V modulating fans
- 8 digital outputs (electro-mechanical relays)
- main relay 16 A res. @ 250 Vac or 30 A res. @ 250 Vac (according to the model)
- 2 outputs 12... 24 Vdc max. 2.5 A
- sealed relays compliant with the standard EN 60079-15
- alarm buzzer
- TTL MODBUS slave port for the EVconnect app or the EPoCA remote monitoring system
- hot or cold mode regulation

Models available

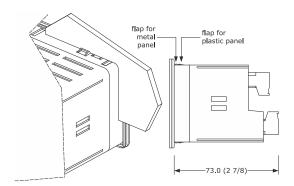
Purchasing code	Number of relays	Capacity of main relay	Manag. of remote indicator
EVY218DN3	8	16 A res. @ 250 Vac	no
EVY238DN3	8	30 A res. @ 250 Vac	no
EVY238DN3PFT	8	30 A res. @ 250 VAC	yes

MEASUREMENTS AND INSTALLATION

asurements are expressed in mm (inches). Front installation on a plastic or metal panel (with elastic holding flaps).



the metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in) thick, while the plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in) make sure the product used to clean the device is not classified as aggress



INSTALLATION PRECAUTIONS

- ensure that the working conditions are within the limits stated in the TECHNICAL SPEC-
- do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or $\,$ shocks
- in compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

FIRST-TIME USE

- Carry out the installation following the instructions given in the section MEASUREMENTS
- Power up the device: an internal test will start up.
 - The test normally takes a few seconds; when it is finished, the display will switch off.
- Configure the device as shown in the section Setting configuration parameters.

	Reconn	nended configuration parameters for his	t-time use.
PAR.	DEF.	PARAMETER	MIN MAX.
SP	0.0	setpoint	r1 r2
P0	1	type of probe	0 = PTC 1 = NTC
			2 = Pt 1000
P2 d1	0	temperature measurement unit	0 = °C 1 = °F
d1	0	type of defrost	0 = electric 1 = hot gas
			2 = compressor stopped

Next check that the remaining settings are appropriate; see the section CONFIGURATION

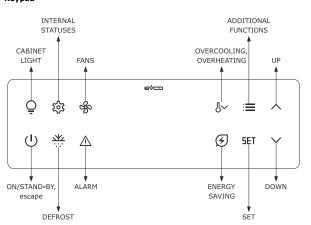
- PARAMETERS. Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION, with-
- To perform the configuration upload or download, connect the EVJKEY programming key. To activate real-time functions, connect the EVlinking RS-485 EVIF23TSX converter. To control the device using the EVconnect app, connect the EVlinking BLE EVIF25TBX module then synchronise it with the app.

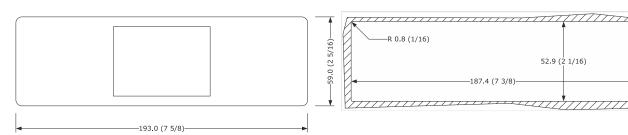
To control the device using the EPoCA monitoring system or a third-party MODBUS TCP

- Wi-Fi network
- connect the EVlinking RS-485 EVIF24TSX converter to the device then to an IoT EV3 Web gateway or EVD Web. Next connect this to a free Ethernet port of a router or an Ethernet hub connected to a local network.

USER INTERFACE AND MAIN FUNCTIONS

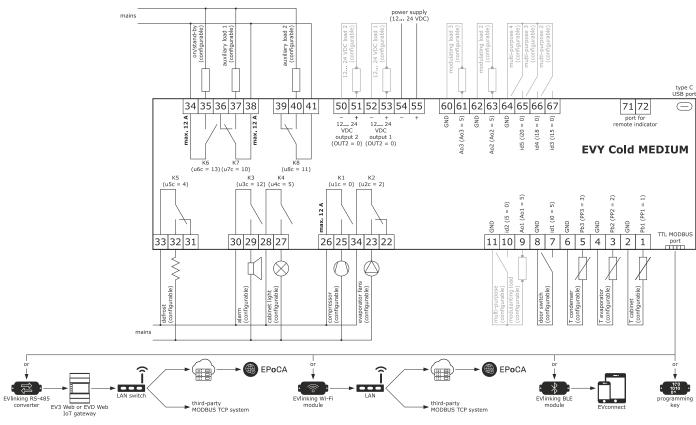
Keypad





ELECTRICAL CONNECTION

- use cables of an adequate section for the current running through them
- in some cases the temperature on the terminal blocks can reach 105 °C (221 °F): use cables with adequate insulation
- to reduce any electromagnetic interference, locate the power cables as far away as possible from the signal cables the 0-10 V analogue outputs operate properly provided that the device is powered by at least 11 VDC
- if the device has a power supply of 12 Vdc, the outputs 12... 24 Vdc will each deliver 12 Vdc max. 2.5 A; if the device has a power supply of 24 Vdc, the outputs 12...
- 24 Vdc will each deliver 24 Vdc max. 2.5 A
- the maximum total current allowed on the loads is 32 A port for remote indicator is only available in model EVY238DN3PF1



PRECAUTIONS FOR ELECTRICAL CONNECTION

- if using an electrical or pneumatic screwdriver, adjust the tightening torque $% \left(1\right) =\left(1\right) \left(1\right) \left($
- · if the device is moved from a cold to a warm place, humidity may cause condensation to form inside. Wait for about an hour before switching on the powe
- make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS
- disconnect the power supply before carrying out any type of maintenance - do not use the device as a safety device
- for repairs and further information, contact the EVCO sales network

Display



Switching the device on/off

If POF = 1 (default), touch the ON/STAND-BY key for 4 s

	ure"); if the LED alarm is		5 value (default "cabinet or produc RMS.
LED	ON	OFF	FLASHING
*	compressor on	compressor off	compressor protection active
-W·	heating active	heating not active	demisting on or door heaters on
Ap.	evaporator fans on	evaporator fans off	evaporator fans off active
<u>***</u>	defrost or pre-drip active	defrost or pre-drip not active	- defrost delay active - dripping active
Ō	clock active	clock not active	-
%	active humidity level displayed	-	-
°C	temperature displayed in Celsius	-	-
°F	temperature displayed in Fahrenheit	-	-
\mathfrak{G}	energy saving active	energy saving not active	-
₽~	overcooling or over- heating active	overcooling or over- heating not active	-
Ŵ	alarm active	alarm not active	compressor maintenance request
НАССР	saved HACCP alarm not displayed	no HACCP alarm saved or no saved HACCP alarm not displayed	new HACCP alarm saved
Ô	cabinet light on	cabinet light off	cabinet light on from digital input
(connection with EVconnect app or EPoCA remote moni- toring system	no connection	-
\\\\	-	thawing not active	thawing active

AUX2 auxiliary load 2 on If Loc = 1 (default) and 30 s have elapsed without the keys being pressed, the display will show the "LOCK" label and the keypad will lock automatically.

auxiliary load 1 off

auxiliary load 2 off

Unlocking the keypad

Touch a key for 1 s: the display will show the label "UNLOCK".

AUX1 auxiliary load 1 on

Setting the setpoint (if r3 = 0, default)

Check that the keypad is not locked.

1.	761	Touch the SET key
2	f 4	Touch the UP or DOWN key within 15 s to set the value within the limits r1 and r2 (default "-40 50 ")
3.	5ET	Touch the SET key (or take no action for 15 s)

Setting the 0-10 V evaporator fan speed for normal operation (percentage 0-10 V output; available if Ao1... Ao3 = 3 and F30 = 0)

Check that the keypad is not locked.

1.	₩	Touch the FAN key
2.	F	Touch the UP or DOWN key within 15 s to set the value within the limits F31 and F32 (default "50 100")
3.	SET	Touch the SET key (or take no action for 15 s)

Activating/deactivating manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active.

Touch the DEFROST key for 2 s $\,$

If P3 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 or d2b threshold.

Check that the keypad is not locked.

 \mathcal{G} Touch the ENERGY SAVING key

FUNCTION	CONDITION	CONSEQUENCE
energy saving	r5 = 0	the setpoint becomes "setpoint +
		r4", for the HE2 time at the most
TC 1		

If u1c... u8c = 16, the evaporator fans will operate at this speed during the energy-saving func-

If u1c...u8c = 18, the condenser fans will operate at this speed during the energy-saving func-

4.9 Activating/deactivating overcooling and overheating

Check that the keypad is not locked.

	•	
FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0 and defrosting not ac-	the setpoint becomes "setpoint -
	tivated	r6", for the r7 time
overheating	r5 = 1	the setpoint becomes "setpoint +
		r6", for the r7 time

Touch the OVERCOOLING/OVERHEATING key

Manually switching the cabinet light on/off (if u1c...u8c = 5) 4.10

Touch the CABINET LIGHT key 1.

4.11 Silencing the buzzer (if u9 = 1, default)

Touch a key.

If u1c... u8c = 11 and u4 = 1, the alarm output is deactivated

EVCO S.p.A. | EVY Cold MEDIUM | Instruction sheet ver. 1.0 | Code 104YCM12E103 | Page2 of 6 | PT 15/25 ADDITIONAL FUNCTIONS 5.6 Deleting compressor operation days Touch the UP or DOWN key within 15 s to select the option "Pa-4. that the keypad is not locked. Setting the date and time (available when the EVlinking RS-485 EVIF23TSX con rameters' verter, the EVlinking BLE EVIF25TBX module or the EVlinking Wi-Fi EVIF25TWX Touch the ADDITIONAL FUNCTIONS key SE1 5. Touch the SET key module is connected) Touch the UP or DOWN key within 15 s to select the option "Ser-**SET** 6. Touch the SET key again CAUTION vice" do not disconnect the device from the mains in the two minutes after setting the Touch the UP or DOWN key within 15 s to set the PAS value (de-**SET** O_O 7. date, time and day of the week fault "-19") if the device communicates with the EV connect app or the EPoCA remote monitoring $\,$ Touch the UP or DOWN key within 15 s to select the option "Reset 4. 8. SE1 Touch the SET key system, it is possible to force the date and time synchronization with those of the Compressor Working Hours" smartphone, tablet or Personal Computer from which you are operating **SET** 5. Touch the SET key Touch the UP or DOWN key to select a parameter Check that the keypad is not locked. SE1 **SET** 6. Touch the SET key again 10. Touch the SET key Touch the ADDITIONAL FUNCTIONS key Touch the UP or DOWN key to set "149" 11. Touch the UP or DOWN key within 15 s to set the value Touch the UP or DOWN key within 15 s to select the option "Ser-2. 5E1 Touch the SET key: the display will show the message "..DONE.." SE1 12. Touch the SET key (or take no action for 15 s) **SET** 3. Touch the SET key (1) Touch the ON/STAND-BY key a few times to exit the procedure 13. Touch the ON/STAND-BY key a few times to exit the procedure 4. Touch the UP or DOWN key within 15 s to select the option "Clock Setting the language Restoring factory settings **SET** 7.2 Check that the keypad is not locked **SET** N.B. 6. Touch the SET key again Touch the ADDITIONAL FUNCTIONS key Ö Check that the factory settings are appropriate; see the section CONFIGURATION PA-Touch the UP or DOWN key within 15 s to select the option "Ser-RAMETERS Touch the UP or DOWN key within 15 s to set the year Check that the keypad is not locked. **SET SET** 8. Touch the SET key Touch the SET key Touch the ADDITIONAL FUNCTIONS key Touch the UP or DOWN key within 15 s to select the option "Lan-9. Touch the UP or DOWN key within 15 s to set the month (01... 12) 4. Touch the UP or DOWN key within 15 s to select the option "Ser-guage' 2. **SET** vice" **SET** 10. Touch the SET key Touch the SET key 3. **SET** Touch the SET key Touch the UP or DOWN key within 15 s to set the day (01... 31) 6. Touch the UP or DOWN key within 15 s to set the language Touch the UP or DOWN key within 15 s to select the option "Reset 4. **SET SET** 12. Touch the SET key **SET** 5. Touch the SET key (l) 13. Touch the UP or DOWN key within 15 s to set the time (00... 23) Touch the ON/STAND-BY key a few times to exit the procedure **SET** 6. Touch the SET key again **SET** 14. Touch the SET key Rebooting the EVlinking Wi-Fi module 7. Touch the UP or DOWN key to set "149" Touch the UP or DOWN key within 15 s to set the minute (00... Check that the keypad is not locked 15. Touch the ADDITIONAL FUNCTIONS key SET 8. Touch the SET key: the display will show the message "..DONE..". (1)16. Touch the ON/STAND-BY key a few times to exit the procedure Touch the UP or DOWN key within 15 s to select the option "Ser-(1)9. Touch the ON/STAND-BY key a few times to exit the procedure vice' Switching on/off the demisting function (if u1c... u6c = 8), auxiliary load 1 (if 5.2 10. Disconnect the device from the power supply **SET** 3. Touch the SET key u1c... u8c = 10) and auxiliary load 2 (if u1c... u8c = 11) that the keypad is not locked. 8 CONFIGURATION PARAMETERS Touch the UP or DOWN key within 15 s to select the option "Re-4. boot EVlinking" Touch the ADDITIONAL FUNCTIONS key 1. NO. PAR. DEF. SETPOINT MIN... MAX. **SET** 5. Touch the SET key for 2 s: the device will exit the procedure 1 SP 0.0 setpoint r1... r2 Touch the UP or DOWN key within 15 s to select an option NO. PAR. DEF. ANALOGUE INPUTS MIN... MAX. INTERNAL STATUS -25... 25 °C/°F **SET** 2 | CA1 | **0.0** | probe 1 offset Touch the SET key: the display will show a message 6.1 Viewing HACCP alarm information 3 | CA2 | **0.0** | probe 2 offset -25... 25 °C/°F OPTION DESCRIPTION MESSAGE Check that the keypad is not locked. 4 CA3 **0.0** probe 3 offset -25... 25 °C/°F AUX 1 switch ON/OFF AUX 1 auxiliary load 1 **193** CA4 0.0 probe 4 offset 5 Touch the INTERNAL STATUS key -25... 25 °C/°F **SET To Confirm** 1 = NTC type of probe P0 1 0 = PTCAUX 2 auxiliary load 2 AUX 2 switch ON/OFF Touch the UP or DOWN key within 15 s to select the option 2. 2 = Pt 1000SET To Confirm 'HACCP" 7 P1 enable decimal point °C 0 = no1 1 = yesSwitch on/off Demisting Demisting demisting **SET** Touch the SET key 8 P2 3. 0 temperature measurement unit 0 = °C **SET To Confirm** Р3 evaporator probe function 0 = disabled1 **SET** Touch the UP or DOWN key to select an option 1 = defrost + fansTouch the SET key: the device will exit the procedure 2 = fansDESCRIPTION The demisting function stays on at full power for the duration of u6 at the most. OPTION 10 Р5 value displayed 0 = if PP1... PP4 = 5, product Low Temperalow temperature alarm temperature (CPT), oth-Setting the humidity level (if F0 = 5) 5.3 ture erwise cabinet temperathat the keypad is not locked. Check Temperahigh temperature alarm High ture ture Touch the ADDITIONAL FUNCTIONS key 1 = setpoint door open alarm (if i4 = 1) Door Open 2 = evaporator temperature Touch the UP or DOWN key within 15 s to select the option "Hupower failure alarm (available when the EVlinking RS-485 Power Failure 3 = condenser temperature 2. midity Level" EVIF23TSX converter, the EVlinking BLE EVIF25TBX module or the 4 = critical temperature EVlinking Wi-Fi EVIF25TWX module is connected) 5 = incoming air tempera-**SET** 3. Touch the SET key: the display will show: ture the date and time of the alarm (available when the EVlinking Touch the UP or DOWN key within 15 s to set the value 6 = outgoing air temperature 4. RS-485 EVIF23TSX converter, the EVlinking BLE EVIF25TBX **SET** 7 = evaporator 2 tempera-5. module or the EVlinking Wi-Fi EVIF25TWX module is connected) ture 5. Touch the SET key: the device will exit the procedure the duration of the alarm like P5 Q = 16, the evaporator fans will operate at this speed during low humidity function. the critical value (when managed) incoming air effect to calculate 0... 100% 12 Р7 50 (1)6. Touch the ON/STAND-BY key a few times to exit the procedure 5.4 Activating/deactivating thawing product temperature (CPT) $CPT = \{[(P7 \times (incoming air))]\}$ Check that the keypad is not locked and that overcooling is not active P7) x [(100 6.2 Viewing internal status (outgoing air)]: 100} Touch the ADDITIONAL FUNCTIONS key Check that the keypad is not locked 13 P8 5 display refresh time 0... 250 s: 10 Touch the UP or DOWN key within 15 s to select the option "Thaw-2. PP1 1 probe 1 function 0 = disabledTouch the INTERNAL STATUS key ing" 1 = if PP1... PP4 = 5, incom-Touch the UP or DOWN key within 15 s to select the option "In-**SET** ing air temperature 3. Touch the SET key ternal Values" probe, otherwise cabinet 5E1 temperature probe 3. Touch the SET key Touch the UP or DOWN key to select an option 2 = evaporator temperature OPTION DESCRIPTION Touch the UP or DOWN key to select an option probe 3 = condenser temperature LIGHT LOAD light load MEDIUM LOAD medium load OPTION DESCRIPTION probe FULL LOAD full load Cabinet T cabinet temperature (visible if PP1... PP4 = 0 and PP1... PP4 \neq 5) 4 = critical temperature **Evaporator T** evaporator temperature (visible if PP1... PP4 = 2) probe **SET** Touch the SET key: the device will exit the procedure 5 = outgoing air temperature Condenser T condenser temperature (visible if PP1... PP4 = 3) Critical Temp. critical temperature (visible if PP1... PP4 = 4) probe **SET** Touch the SET key for 2 s to deactivate thawing 6 = evaporator 2 tempera-**Outgoing Air T.** outgoing air temperature (visible if PP1... PP4 = 6) ture probe 2 evaporator 2 temperature (visible if PP1... PP4 = 7) Evaporator CONDITION 15 PP2 2 probe 2 function FUNCTION CONSEQUENCE like PP1 Temp. product temperature (visible if PP1... PP4 = 5) u1c... u8c = 8- if LIGHT LOAD selected, main 16 PP3 3 probe 3 function like PP1 **CPT Value** function of r19, r22 and r25, de-PP4 probe 4 function 0 = disabled (multi-purpose Compressor percentage of power supplied by the analogue output to the cominput enabled) frost disabled Speed pressor (visible if Ao1...Ao3 = 1) if MEDIUM LOAD selected. like PP1 for the remaining val-Condenser Fan percentage of power supplied by the analogue output to the conmain function of r20, r23 and denser fan (visible if Ao1... Ao3 = 2) ues Speed r26, defrost disabled NO. PAR. DEF. MAIN REGULATOR MIN... MAX. Evaporator Fan percentage of power supplied by the analogue output to the evapif HIGH LOAD selected, main orator fan (visible if Ao1... Ao3 = 3) r0 2.0 setpoint differential 1... 15 °C/°F Speed function of r21, r24 and r27, deif Ao1... Ao3 = 0, compressor Minimum minimum temperature saved in the last 72 hours Temfrost disabled band off (relative to setpoint, perature When thawing is complete, a buzzer will sound for the duration of u10 and the device will go into i.e. setpoint - r0) Maximum Temmaximum temperature saved in the last 72 hours conservation phase (main function of r28). The evaporator fan stays on. r1 -40 minimum setpoint -99 °C/°F... r2 perature If the door is opened during thawing, the function is deactivated. 20 r2 **50.0** maximum setpoint r1... 199 °C/°F compressor operation days Comp. Days 21 r3 enable setpoint lock 0 = no 1 = yesNo. Comp. Actinumber of compressor switch-ons Deleting HACCP alarm information 5.5 r4 **0.0** setpoint offset in energy saving 22 0... 99 °C/°F vations Check that the keypad is not locked. 0 = cold mode 23 r5 hot or cold mode regulation No. Door Opennumber of door openings Touch the ADDITIONAL FUNCTIONS key 1. 1 = hot mode ings 24 r6 0.0 setpoint offset in overcool- 0... 99 °C/°F Touch the UP or DOWN key within 15 s to select the option "Ser-(1)Touch the ON/STAND-BY key a few times to exit the procedure ⅉ

As regards the minimum and maximum temperatures saved in the last 72 hours, the device

saves the rEt value (default "temperature of the cabinet or the product, not during defrost, pre-

Touch the ADDITIONAL FUNCTIONS key

Touch the UP or DOWN key within 15 s to select the option "Ser-

When the device is switched on/off, these temperatures are deleted.

Touch the SET key

drip or dripping and with the fans off").

7.1 Setting configuration parameters

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Check that the keypad is not locked.

SET

2.

3.

2.

3.

4.

5.

6.

7.

8.

9.

SET

SET

SET

SET

(1)

vice"

Touch the SET key

HACCP Alarms"

Touch the SET key

Touch the SET key again

Touch the UP or DOWN key to set "149"

Touch the UP or DOWN key within 15 s to select the option "Reset

Touch the SET key: the display will show the message "..DONE..".

Touch the ON/STAND-BY key a few times to exit the procedure

ing/overheating

differential position r0

pressor (relative to setpoint)

duration overcooling/overheating | 0... 240 min

integral action time with PWM 0... 99 min

25.0 proportional band with PWM com- 0... 99 °C/°F

0 = asymmetrical 1 = symmetrical

setpoint + r13

0

10

25 r7

26 r12

27

28 r14

r13

29	EVY Co	d MEDIL	JM Instruction sheet ver. 1.0 Code 10	04YCM12E103 Page3 of 6 PT 15/2 1 = Embraco VEM	25	68	U41	0	evaporator fans on delay from	-300 300 s
29	r15	3	type of PWM compressor	2 = Embraco VEG 3 = Embraco VNEK and VNEU		68	U41	0	compressor on for humidity level	if values are negative, pressor on delay from o
				4 = Secop VNL 50 150 Hz (40 Hz when set to off)						quest and evaporator far mediately on
				5 = Secop 33 133 Hz 6 = Tecumseh 85 150 Hz		69	U42	0	evaporator fans off delay from compressor off for humidity level	-300 300 s if values are negative,
				7 = Embraco VES 8 = Embraco FMX					4	pressor off delay from of quest and evaporator far
30	r16	0	percentage 0-10 V output for	9 = Embraco VESF 0 % r17		70	U43	60	time evaporator fans on for hu-	mediately off
30	110		compressor with minimum capac-	0 76117					midity level 4	
31	r17	100	percentage 0-10 V output for	r16 100%		71	U44	1	time evaporator fans off for humidity level 4	0 59 min
			compressor with maximum capacity			72	U45	0	time evaporator fans on if com- pressor is off for humidity level 4	0 59 s
32	r18	0	maximum percentage 0-10 V output for compressor in energy sav-	0 100% 0 = disabled		73	U51	0	evaporator fans on delay from compressor on for humidity level	-300 300 s if values are negative,
33	r19	25.0	ing mode initial regulation threshold for	-50 99 °C/°F					5	pressor on delay from o
		-5.0	light load thawing	for r25 : 5 (phase 1)						mediately on
				next threshold = $\{ [(r19 - r22) : 4] \times 3 \}$, for r25 : 5 (phase 2)		74	U52	0	evaporator fans off delay from compressor off for humidity level	-300 300 s if values are negative,
				next threshold = $\{ [(r19 - r22) : 4] \times 2 \}$, for r25 : 5 (phase 3)					5	pressor off delay from o quest and evaporator far
				next threshold = $\{ [(r19 - r22) : 4] \times 1 \}$, for r25 : 5 (phase 4)		75	U53	60	time evaporator fans on for hu-	mediately off 0 60 s
34	r20	30.0	initial regulation threshold for me- dium load thawing	-50 99 °C/°F for r26 : 5 (phase 1)		76	U54	1	midity level 5	0 59 min
			alam load alaming	next threshold = $\{ [(r20 - r23)]$					time evaporator fans off for humidity level 5	
				: 4] x 3}, for r26 : 5 (phase 2) next threshold = $\{ [(r20 - r23)]$		77	U55	0	time evaporator fans on if com- pressor is off for humidity level 5	0 59 s
				: 4] x 2}, for r26 : 5 (phase 3) next threshold = $\{ [(r20 - r23)] \}$		78	U61	0	evaporator fans on delay from compressor on for humidity level	-300 300 s if values are negative,
35	r21	35.0	initial regulation threshold for full	: 4] x 1}, for r26 : 5 (phase 4) -50 99 °C/°F					6	pressor on delay from o
			load thawing	for r27 : 5 (phase 1)						quest and evaporator far mediately on
				next threshold = $\{ [(r21 - r24) : 4] \times 3 \}$, for r27 : 5 (phase 2)		79	U62	0	evaporator fans off delay from compressor off for humidity level	-300 300 s if values are negative,
				next threshold = { [(r21 - r24) : 4] x 2}, for r27 : 5 (phase 3)					6	pressor off delay from o
				next threshold = { [(r21 - r24) : 4] x 1}, for r27 : 5 (phase 4)		80	U63	60	time evaporator fans on for hu-	mediately off 0 60 s
36	r22	10.0	final regulation threshold for light load thawing	-50 99 °C/°F for r25 : 5 (phase 5)					midity level 6	
37	r23	12.0	final regulation threshold for me-	-50 99 °C/°F		81	U64	1	time evaporator fans off for humidity level 6	0 59 min
38	r24	15.0	dium load thawing final regulation threshold for full	for r26 : 5 (phase 5) -50 99 °C/°F		82	U65	0	time evaporator fans on if com- pressor is off for humidity level 6	0 59 s
39	r25	240	load thawing light load thawing duration	for r27 : 5 (phase 5) 1 999 min		83	U71	0	evaporator fans on delay from	
40	r26	480 720	medium load thawing duration full load thawing duration	1 999 min 1 999 min					compressor on for humidity level 6	pressor on delay from o
42	r28	3.0	regulation threshold during con-	-50 99 °C/°F						quest and evaporator far mediately on
43	r29	1.0	servation neutral zone threshold for thaw-	0 10 °C/°F		84	U72	0	evaporator fans off delay from compressor off for humidity level	-300 300 s if values are negative,
			ing and conservation (relative to current threshold)						7	pressor off delay from o
44	r30	2.0	neutral zone threshold differential for thawing and conservation	1 25 °C/°F						mediately off
			(r29) during heating			85	U73	60	time evaporator fans on for humidity level 7	0 60 s
45	r31	2.0	neutral zone threshold differential for thawing and conservation	1 25 °C/°F		86	U74	1	time evaporator fans off for humidity level 7	0 59 min
46	r32	45	(r29) during cooling heating on cycle time during	1 600 s		87	U75	0	time evaporator fans on if com- pressor is off for humidity level 7	0 59 s
47	r33	4	thawing heating on time during thawing	1 600 s		88	U81	0	evaporator fans on delay from	-300 300 s
NO.	PAR.	DEF.	HUMIDITY	MIN MAX.					compressor on for humidity level 8	if values are negative, pressor on delay from o
48	U01	0	evaporator fans on delay from compressor on for humidity level	-300 300 s if values are negative, com-						quest and evaporator fan mediately on
			0	pressor on delay from on request and evaporator fans im-		89	U82	0	evaporator fans off delay from compressor off for humidity level	-300 300 s if values are negative,
49	U02	0	evaporator fans off delay from	mediately on -300 300 s					8	pressor off delay from o quest and evaporator fan
			compressor off for humidity level 0	if values are negative, com- pressor off delay from off re-		90	U83	60	time evaporator fans on for hu-	mediately off 0 60 s
				quest and evaporator fans im- mediately off		91	U84	1	midity level 8 time evaporator fans off for hu-	0 59 min
50	U03	60	time evaporator fans on for hu-	0 60 s					midity level 8	
51	U04	1	midity level 0 time evaporator fans off for hu-	0 59 min		92	U85	0	time evaporator fans on if com- pressor is off for humidity level 8	0 59 s
52	U05	0	midity level 0 time evaporator fans on if com-	0 59 s		93	U91	0	evaporator fans on delay from compressor on for humidity level	-300 300 s if values are negative,
53	U11	0	pressor is off for humidity level 0 evaporator fans on delay from	-300 300 s					9	pressor on delay from o quest and evaporator fan
	311		compressor on for humidity level	if values are negative, com-		-	110-	_	overnoustes from a finite state of	mediately on
			1	pressor on delay from on request and evaporator fans im-		94	U92	0	evaporator fans off delay from compressor off for humidity level	if values are negative,
54	U12	0	evaporator fans off delay from	mediately on -300 300 s					9	pressor off delay from o quest and evaporator far
			compressor off for humidity level	if values are negative, com- pressor off delay from off re-		95	U93	60	time evaporator fans on for hu-	mediately off 0 60 s
				quest and evaporator fans im-					midity level 9	
55	U13	60	time evaporator fans on for hu-	mediately off 0 60 s		96	U94	1	time evaporator fans off for humidity level 9	0 59 min
56	U14	1	midity level 1 time evaporator fans off for hu-	0 59 min		97	U95	0	time evaporator fans on if com- pressor is off for humidity level 9	0 59 s
57	U15	0	midity level 1 time evaporator fans on if com-	0 59 s		NO. 98	PAR. CP0	DEF.	COMPRESSOR 85 Hz PWM compressor time from	MIN MAX. 0 100 s x 10
58	U21	0	pressor is off for humidity level 1 evaporator fans on delay from						power-on	
Jö	021	"	compressor on for humidity level	if values are negative, com-		99	CP1	50	percentage 0-10 V compressor from power-on	
			2	pressor on delay from on request and evaporator fans im-		100	CP3	100	percentage 0-10 V compressor in cabinet probe alarm	0 100%
59	U22	0	evaporator fans off delay from	mediately on -300 300 s		101	CP4	0	maximum 0-10 V compressor-on time	0 240 min
			compressor off for humidity level 2	if values are negative, com- pressor off delay from off re-		102	C0	0	compressor-on delay from power-	0 240 min
				quest and evaporator fans im-		103	C1	5	delay between two compressor	0 240 min
60	U23	60	time evaporator fans on for hu-	mediately off 0 60 s		104	C2	3	switch-ons minimum compressor-off time	0 240 min
61	U24	1	midity level 2 time evaporator fans off for hu-	0 59 min		105 106	C3 C4	0 10	minimum compressor-on time compressor-off time in cabinet	0 240 s 0 240 min
62	U25	0	midity level 2 time evaporator fans on if com-	0 59 s					probe alarm	
			pressor is off for humidity level 2			107	C5	10	compressor-on time (maximum capacity) in cabinet probe alarm	0 240 min
63	U31	0	evaporator fans on delay from compressor on for humidity level	-300 300 s if values are negative, com-		108	C9	5	cabinet temperature consecutive time within proportional band to	0 99 h 0 = disabled
			3	pressor on delay from on request and evaporator fans im-					operate compressor at max.	until cabinet temperatu setpoint
64	U32	0	evaporator fans off delay from	mediately on -300 300 s		109	C10	0	compressor days for maintenance	0 999 days
			compressor off for humidity level	if values are negative, com-		110	C11	10	compressor 2 on delay	0 = disabled 0 240 s
			3	pressor off delay from off request and evaporator fans im-		111	C12	2	compressor hour value effect to	if C14 = 0 0 10
65	U33	60	time evaporator fans on for hu-	mediately off 0 60 s				_	balance hours and switch-ons (BHC)	
66	U34	1	midity level 3 time evaporator fans off for hu-	0 59 min					(One)	switch-ons)]}
	U35	0	midity level 3	0 59 s		112	C13	1	compressor switch-ons value ef-	if C14 = 2 0 10
67	ددں ا	"	time evaporator fans on if com- pressor is off for humidity level 3	٥ د د ن					fect to balance hours and switch-	BHC = {[C12 x (compre hours)] + [C13 x (compre
67			pressor is on for numbery level s						ons (BHC)	[nodis)] i [cis x (compi

	113	C14	1	constraint between compressor	0 = function of C11
		_		and compressor 2	1 = function of r0 2 = function of C12 and C13
	NO.	PAR.	DEF.	DEFROST (if r5 = 0)	MIN MAX.
	114 115	d00 d01	1.0	enable "b" mode parameters setpoint threshold to activate "b"	0 = no 1 = yes r1 r2
	116	d0	8	mode parameters automatic defrost interval	activated if setpoint > d01 0 99 h
		-			0 = manual only
	117	d0b	6	automatic defrost interval in "b"	if d8 = 3, maximum interval like d0
	118	d1	0	mode type of defrost	0 = electric
					1 = hot gas (do not use with regulation with 2 com
					pressors)
	119	d1b	2	type of "b" mode defrost	2 = compressor stopped like d1
	120	d2	2.0	defrost end threshold	-99 99 °C/°F
	121 122	d2b d3	30	"b" mode defrost end threshold defrost duration	0 99 min
	123	d3b	20	"b" mode defrost duration	if P3 = 1, maximum duration like d3
	124	d4	0	enable defrost at power-on	0 = no 1 = yes
	125 126	d5 d6	1	defrost delay from power-on value displayed when defrosting	0 99 min 0 = cabinet or product tem
					perature 1 = locked display
	127	٦-7		duia dumatica	2 = label dEF
	127 128	d7 d7b	0	drip duration "b" mode drip duration	0 15 min like d7
	129	d8	0	defrost interval count mode	0 = hours device on 1 = hours compressor on
					2 = hours evaporator tem
۵					perature < d9 3 = adaptive
	130	d9	0.0	evaporator temperature threshold	4 = in real time -99 99 °C/°F
	-55			for automatic defrost interval	, .
	131	d11	0	count enable defrost timeout alarm	0 = no 1 = yes
	132	d15	0	compressor-on consecutive time for hot gas defrost	-20 99 min if values are negative, drip
	Ļ		_		ping heaters on time
	133	d16	0	pre-drip duration for hot gas de- frost	0 99 min
	134	d18	40	adaptive defrost interval	0 999 min if compressor on + evaporato
					temperature < d22
	135	d19	3.0	adaptive defrost threshold (rela-	0 = manual only 0 40 °C/°F
				tive to optimal evaporator tem- perature)	optimal evaporator tempera ture - d19
	136	d20	180	compressor-on consecutive time	0 999 min
	137	d21	200	for defrost compressor-on consecutive time	0 = disabled 0 999 min
				for defrost from power-on and from overcooling	if (cabinet or product temper ature - setpoint) > 10°C/20°
		10-	-	-	0 = disabled
	138	d22	-2.0	evaporator temperature threshold for adaptive defrost interval count	-10 10 °C/°F optimal evaporator tempera
				(relative to optimal evaporator temperature)	ture + d22
	139	d25	0	enable outgoing air temperature	0 = no 1 = yes
				probe for defrost in evaporator probe alarm	
	140	d26	6	defrost interval in evaporator probe alarm	0 99 h 0 = manual only
	NO	DAD	DEE		if d25 = 1
	NO. 141	PAR. A0	DEF.	TEMPERATURE ALARMS select value for high/low temper-	MIN MAX. 0 = cabinet or product tem
				ature alarms	perature 1 = evaporator temperature
	142	A1	0.0	low temperature alarm threshold	2 = critical temperature -99 99 °C/°F
	143	A2	0	type of low temperature alarm	0 = disabled
					1 = relative to setpoint (i.e setpoint + A1)
	144	A4	0.0	high temperature alarm threshold	2 = absolute (A1) -99 99 °C/°F
	145	A5	0	type of high temperature alarm	0 = disabled
					1 = relative to setpoint (i.e setpoint + A4)
	146	A6	120	high temperature alarm delay	2 = absolute (i.e. A4) 0 240 min
	147	A7	15	from power-on high/low temperature alarm delay	0 240 min
	148	A8	15	high temperature alarm delay af-	0 240 min
	149	A9	15	ter defrost high temperature alarm delay	0 240 min
N	150	A10	10	from door closure duration of power failure for sav-	0 240 min
				ing alarm	0 = disabled
	151	A11	2.0	high/low temperature alarm threshold differential (A1 and A4)	1 15 °C/°F
	152	A12	1	enable power failure alarm signal	0 = no 1 = yes (label PF, if EVlinking
					RS-485 EVIF23TSX
					EVlinking BLI EEVIF25TBX or EVlinking
					Wi-Fi EVIF25TWX is con nected)
			1	high condensation signal thresh-	0 199 °C/°F
	153	A13	80	old	differential = 2 °C/4 °C
	153 154	A13	80 90	old high condensation alarm thresh-	differential = 2 °C/4 °F 0 199 °C/°F
				high condensation alarm threshold	0 199 °C/°F 0 15 min
	154 155	A14 A15	90	high condensation alarm threshold high condensation alarm delay	0 199 °C/°F 0 15 min
	154	A14	90	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote dis-	0 199 °C/°F
	154 155	A14 A15	90	high condensation alarm threshold high condensation alarm delay enable viewing of high/low tem-	0 199 °C/°F 0 15 min
	154 155 156	A14 A15 A16	90	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0 DEF.	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS	0 199 °C/°F 0 15 min 0 = no
	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0 DEF.	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0 DEF.	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0 DEF.	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	O 199 °C/°F O 15 min O = no
Ş	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0 DEF.	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
Ş	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
Ş	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
Ş	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
Ş	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no
\$	154 155 156 NO.	A14 A15 A16 PAR.	90 1 0	high condensation alarm threshold high condensation alarm delay enable viewing of high/low temperature alarms on remote display FANS evaporator fan mode in normal	0 199 °C/°F 0 15 min 0 = no

.A. E	F1 F2	-4.0 0	T .			203	i10	0	door closed consecutive time for energy saving	0 999 min after cabinet or product tem- perature < SP 0 = disabled		253	rEt	0	select tempe device in las			0 = cabinet or product (r during defrost, pre-dr ping, dripping and f stop)
	F2b	0	evaporator fan mode in "b" mode defrost and drip	like F2		204	i13	180	number of door openings for de- frost	0 = disabled								1 = cabinet or product (a during defrost, pre-dr
	F3	2	maximum time evaporator fans off			205		32	door open consecutive time for defrost	0 = disabled								ping, dripping and stop) 2 = critical (not during
163	F3b F4	2	maximum time evaporator fans off in "b" mode			206 207 208	i16	0	multi-purpose input 2 function multi-purpose input 2 activation	like i5								frost, pre-dripping, d ping and fan stop)
	F4 F5	30	time evaporator fans off in energy saving time evaporator fans on in energy	if F0 ≠ 5		209	i19	0	multi-purpose input 3 function multi-purpose input 3 activation	like i5 like i6 like i5								3 = critical (also during frost, pre-dripping, o
166	F7	5.0	saving evaporator fans on threshold from	if F0 ≠ 5		211 NO.		0 0 DEF.	multi-purpose input 4 function multi-purpose input 4 activation DIGITAL OUTPUTS	like i6 MIN MAX.								ping and fan stop) 4 = cabinet or product (
167	F8	2.0	dripping (relative to setpoint) evaporator fans regulation	setpoint + F7		212		0 0	K1 relay configuration	0 = compressor 1 = compressor 2								during defrost, pre-d ping, dripping and
.68	F9	10	threshold differential (F1) evaporator fans off delay from	·						2 = evaporator fans 3 = condenser fans		NO.	PAR.	DEF.	MODBUS			stop) MIN MAX.
	F10	1	compressor off condenser fan mode in normal op-	if F0 = 2 or 5						4 = defrost 5 = cabinet light	_	254 255	LA Lb	247 3	MODBUS ad			1 247 0 = 2,400 baud
			eration	(with condenser temper- ature + F11)						6 = demisting 7 = door heaters	ld							1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud
				1 = thermostat controlled (with condenser temper-						8 = heaters for neutral zone 9 = dripping heaters		256	LP	2	MODBUS pa	rity		0 = none 1 = odd 2 = even
				ature + F11) if compres- sor off, on if compressor						10= auxiliary load 1 11= auxiliary load 2		NO.	PAR.	DEF.	MODBUS US			MIN MAX. 0 = for real time funct
				2 = thermostat controlled (with condenser temper-						12= alarm 13= on/stand-by 14= evaporator fans 2		25,	DLL	-	type or use (31 1121100	DOS POR	(with EVlinking RS- EVIF23TSX converter
				ature + F11) if compres- sor off, on if compressor						15= defrost 2 16= speed 2 evaporator fans								for MODBUS RTU via 485 communica
				on, off in defrost, pre- drip and dripping						17= reversible condenser fans								(with EVlinking RS- EVIF23TSX
170	F11	15.0	condenser fans on threshold	0 99 °C/°F differential = 2 °C/4 °F		213	u2c	2	K2 relay configuration	18= speed 2 condenser fans like u1c								EVIF24TSX converter
L71	F12	30	condenser fans off delay from compressor off	0 240 s if PP1 PP4 ≠ 3	×	214 215		12 5	K3 relay configuration K4 relay configuration	like u1c								1 99 = serial commun tion address
172	F13	2	condenser fans on threshold dif- ferential (F11)	1 25 °C/°F if Ao1 Ao3 = 2, condenser		216 217	u5c u6c	4 13	K5 relay configuration K6 relay configuration	like u1c								- for EVconnect app (EVlinking BLE module)
				fans proportional band (relative to F11, i.e. F11 + F13)		218 219	_	10 11	K5 relay configuration K6 relay configuration	like u1c								for EPoCA monitoring tem or for MODBUS TCF
	F14	10	100 % start-up time for 0-10 V condenser fans	0 240 s		220	u2	0	enable cabinet light and auxiliary load 1 and 2 in stand-by	0 = no 1 = yes in manual mode								Wi-Fi communication (EVlinking Wi-Fi EVIF25 ⁻¹ module), set 1
	F15	100	maximum percentage 0-10 V con- denser fans in energy saving			221	u3	0	alarm output activation	0 = with alarm not active 1 = with alarm active								- for EPoCA monitoring stem or for MODBUS TCP
175		60	time evaporator fans off if com- pressor off	if F0 and/or F0b = 0		222	u4	1	enable deactivation alarm output with silencing buzzer	0 = no 1 = yes								Ethernet communica (wit EVlinking RS-
	F18	10	time evaporator fans on if com- pressor off	if F0 and/or F0b = 0		223 224	_	-1.0 2.0	door heaters on threshold door heaters on threshold differ-	-99 99 °C/°F 1 25 °C/°F								EVIF24TSX converter EV3 Web or EVD Web
	F19	0	reversible condenser fans on in- terval			225	u6	5	ential (u5) maximum duration demisting on	1 120 min								gateway), please con the proper manual
$\overline{}$	F20 F30	0	reversible condenser fans on time setting percentage 0-10 V evapo-	0 = touch SET key twice		226	u7	-5.0	neutral zone for heating threshold									The communication w with MODBUS baud
			rator fan speed in normal opera- tion	2 = automatic with F1, F31,					(relative to setpoint)	differential = 2 °C/4 °F setpoint + u7								19,200 and with MODBUS ity even, independently or
180	F31	50	percentage 0-10 V evaporator			227 228	u9 u10	5	enable alarm buzzer duration alarm buzzer at end of	0 = no 1 = yes 0 240 s								value set with parameters Lb and LP
181	F32	100	1			NO.	PAR.	DEF.	thawing ANALOGUE OUTPUTS	MIN MAX.		NO. 258	PAR. OUT1	DEF.	1 '			MIN MAX. 0 = disabled
182	F33	100	1'	if F32 < F31, F31 is relevant F31 F32		229	Ao1	5	analogue output configuration	0 = PWM compressor (r15) 1 = 0-10 V compressor	l —				Vdc			1 = cabinet light 2 = evaporator fans
183	F34	10	fans in normal function F35 start-up duration 0-10 V	0 240 s	1~					2 = 0-10 V condenser fans	-							3 = evaporator fans 2 4 = condenser fans
			· ·	0 240 3	<u>/</u>			1		3 = 0-10 V evaporator fans			01174					
	F35	100	evaporator fans percentage 0-10 V evaporator		<u> </u>	230	102	_	analogue output 2 configuration	4 = disabled 5 = disabled		259	OUT1	0	output conf Vdc	iguration 2	2 12 24	
184		100	evaporator fans	0 100% 1 25 °C/°F		230 231	Ao3	5 5	analogue output 2 configuration analogue output 3 configuration	4 = disabled 5 = disabled like Ao1 like Ao1	9	259 ALA		0	1 '	iguration 2	2 12 24	
184	F35		evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans	0 100% 1 25 °C/°F setpoint-F36	<u>©</u>	231 NO. 231	Ao3 PAR. Hr0	5 DEF. 0	analogue output 3 configuration CLOCK enable clock	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no 1 = yes	9.1	ALA View	RMS ring ac	tive ala	Vdc	iguration 2	2 12 24	
184	F35	10	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to setpoint)	0 100% 1 25 °C/°F setpoint-F36 0 100%		231 NO.	Ao3 PAR. Hr0 PAR.	5 DEF.	analogue output 3 configuration CLOCK	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no 1 = yes MIN MAX. 0 999 min	9.1	ALA View	RMS ring ac	tive ala	Ndc Arms ot locked. Touch the Al	LARM key		like OUT2
L84 L85 L86	F35 F36 F37	10	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to setpoint) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on	<u>(</u>)	231 NO. 231 NO. 232	Ao3 PAR. Hr0 PAR.	5 DEF. 0 DEF.	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0)	4 = disabled 5 = disabled like A01 like A01 MIN MAX. 0 = no 1 = yes MIN MAX. 0 999 min 0 = until door opened	9.1 Check	ALA View	RMS ring ac	tive ala	ot locked. Touch the Al Touch the Ul alarms	LARM key P or DOWN	key within 1	like OUT2
184 185 186 187	F35 F36 F37 F38 F39	0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to setpoint) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on	<u>©</u>	231 NO. 231 NO. 232	Ao3 PAR. Hr0 PAR. HE2 PAR.	5 DEF. 0 DEF. 0	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1	ALA View	RMS ring ac	tive ala	ot locked. Touch the Al Touch the Ul alarms	LARM key P or DOWN N/STAND-E	key within 1	like OUT2
L84 L85 L86 L87 L88	F35 F36 F37 F38 F39 F40	0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39	<u>(</u>)	231 NO. 231 NO. 232 NO. 233 234 NO.	A03 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR.	5 DEF. 0 DEF. 0 DEF.	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1. 2. 3.	ALA View that the	ring ac ne keyp	tive ala	arms to locked. Touch the Al Touch the Ul alarms Touch the O the procedul	LARM key P or DOWN N/STAND-E re	key within : BY key (or t	like OUT2 15 s to scroll through the action for 60 s) to
	F35 F36 F37 F38 F39 F40 F41	0 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to setpoint) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39		231 NO. 231 NO. 232 NO. 233 234 NO. 235	A03 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR.	5 DEF. 0 DEF. 0 DEF. 0 DEF.	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN	ALA View that the	ring ac ne keyp	tive ala	Touch the All Touch the Old the procedure DESCR cabinet	LARM key P or DOWN N/STAND-E re	key within : BY key (or t	L5 s to scroll through the acake no action for 60 s) to TO CORRECT c - check P0
	F35 F36 F37 F38 F39 F40 F41 F42	0 0 0 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to setpoint) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39	<u>(</u>)	231 NO. 231 NO. 232 NO. 233 234 NO. 235	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon	5 DEF. 0 DEF. 0 DEF. h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1. 2. 3. 9.2 ALARN Cabin	Alari	ring ac ne keyp	ad is no	Touch the Ulalarms Touch the Other procedure DESCR. cabinet alarm evapora	LARM key P or DOWN N/STAND-E re	key within : 3Y key (or t RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check P0 - check the integrity of the probe
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43	0 0 0 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon	5 DEF. 0 DEF. 0 DEF. h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1. 2. 3. 9.2 ALARN Cabin	Alam	ring acone keyp	tive ala ad is no	Touch the Al alarms DESCR. Cabinet alarm evaporal	LARM key P or DOWN N/STAND-E re IPTION probe	key within : BY key (or t RESET automation	Is s to scroll through the action for 60 s) to TO CORRECT - check P0 - check the integrity of the probe - check electrical in nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42	0 0 0 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on and on an and on if heating is on an		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1	5 DEF. 0 DEF. 0 DEF. h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1. 2. 3. 9.2 ALARN Cabin	Alarri	ring accesses the keypolic forms. The probability of the probability	tive ala ad is no	Touch the Al Touch the O alarms Touch the O the procedur DESCR cabinet alarm evapor alarm conden alarm	LARM key P or DOWN N/STAND-E re IPTION probe ator probe	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check PO - check the integrity of the probe - check electrical of nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR.	0 0 0 0 0 DEF.	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1	5 DEF. 0 DEF. 0 DEF. h- h- h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 2. 3. 9.2 ALARN Cabin Evape Conde	Alari	RMS ring ac ne keyp (1) ms b. Failt Prb. F	tive ala ad is no	Touch the All Touch the Older	LARM key P or DOWN N/STAND-E re IPTION probe ator probe	RESET automatic	TO CORRECT - check P0 - check the integrity of the probe - check electrical of nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR.	0 0 0 0 0 DEF.	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evapora-		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 240	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1 Hc2 PAR. Hd1	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 2. 3. 9.2 ALARN Cabin Evape Conde	Alari	RMS ring ac ne keyp (1) ms b. Failt Prb. F	tive alad is not all i	Touch the All Touch the Older	LARM key P or DOWN N/STAND-E re IPTION probe ator probe tempera- obe alarm ng air tem-	RESET automatic automatic automatic automatic	TO CORRECT - check P0 - check the integrity of the probe - check electrical of nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR.	0 0 0 0 0 DEF.	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243	A03 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1 Hd2 Hd3 Hd4 Hd5	5 DEF. 0 DEF. 0 DEF. h- h- h- h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 5th daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 2. 3. 9.2 ALARN Cabin Evapor Conduction Outgo	Alarmatical Alarmatical Alarmatical Alarmatical Terminal Terminal Alarmatical	ring accine keypp (I) ms Prb. Failur Prb. F	tive alad is not all i	Touch the Al Touch the Ulalarms Touch the Olalarms Touch the Olalarm DESCR cabinet alarm evaporalarm conden alarm re critical ture properaturalarm	LARM key P or DOWN N/STAND-E re IPTION probe ator probe tempera- obe alarm go air tem- re probe ator probe	RESET automatic automatic automatic automatic	Itike OUT2 It is so scroll through the action for 60 s) to to the integrity of the probe check electrical in nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR.	0 0 0 0 0 DEF.	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242	A03 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hdd4 Hd5 Hdd6 PAR.	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3nd daily defrost time 4th daily defrost time 4th daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Condo Critic Outgo	Alaminated Proporation	RMS ing ac the keyp (1) ms b. Failth r Prb. F mp. Pri ir Prb	itive ala ad is no ire ire ailure Failur Failur	Touch the U the procedur DESCR cabinet alarm evapor alarm critical ture pre e outgoir peratur alarm evapor conden alarm critical ture pre e outgoir peratur alarm ce clock a	LARM key P or DOWN IN/STAND-E re IPTION probe ator probe tempera- obe alarm g air tem- re probe ator 2	RESET automatic automatic automatic automatic automatic automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check P0 - check the integrity of the probe - check electrical in nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR.	0 0 0 0 0 DEF.	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cab-		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244	A03 PAR. Hr0 PAR. H62 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1 Hd2 PAR. Hd1 Hd2 PAR. Hd1 PAR. Hd1 PAR. POF	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h- h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4sh daily defrost time 5sh daily defrost time 5sh daily defrost time 6sh daily defrost time 6sh daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARY Cabin Evapo Critic Outgo	Alaridet Prorato	RMS ing ac ne keyp (1) The property of the	ure liailure Failur Failur	arms ot locked. Touch the Al Touch the Bl alarms Touch the Cl the procedur DESCR cabinet alarm evapor alarm conden alarm critical ture pr e outgoir peratur alarm re evapor alarm critical ture pr e outgoir peratur alarm clock a low to alarm	LARM key P or DOWN N/STAND-E re IPTION probe ator probe tempera- obe alarm gg air tem- e probe ator 2 slarm larm	RESET automatic automatic automatic automatic automatic automatic automatic automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check P0 - check the integrity of the probe - check electrical of nection set the date and time check A0, A1 and A2
.84 .85 .86 .87 .888 .89 .90 .191 .192 .193 .194	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0	0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hd2 Hd3 Hd4 Hd5 Hd6 Hd6 Loc	5 DEF. 0 DEF. 0 DEF. h-	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 2nd daily defrost time 4st daily defrost time 5st daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARY Cabin Evapo Critic Outgo	Alarmator Alarma	ring active keypp in a series	ure liailure Failur Failur	Touch the Al Touch the U alarms Touch the Cl the procedur DESCR cabinet alarm evapora alarm conden alarm ture pr e outgoir peratur alarm evapora alarm ine evapora alarm high t alarm	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- obe alarm g air tem- re probe ator 2 slaarm larm emperature	RESET automatic automatic automatic automatic automatic automatic automatic automatic	Itike OUT2 It is so scroll through the action for 60 s) to to to the probe check the integrity of the probe check electrical of nection to the probe check electrical of the probe check
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 i0 i1 i2 i3	0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 246	Ao3 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1 Hc2 PAR. Hd1 Loc	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h- 1 1 100	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 3nd daily defrost time 4sh daily defrost time 4sh daily defrost time 5sh daily defrost time	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Critic Outgo	Alarman Alarma	RMS ing ac the keypp ing ac	ure liailure Failur Failur	Touch the Al Touch the U alarms Touch the Cl the procedur DESCR cabinet alarm evapora alarm conden alarm ture pr e outgoir peratur alarm evapora alarm ine evapora alarm high t alarm	LARM key P or DOWN IN/STAND-E re IPTION probe ator probe tempera- bebe alarm g air tem- re probe ator 2 alarm larm emperature emperature emperature	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check PO - check the integrity of the probe - check electrical of nection set the date and time check A0, A1 and A2 check A0, A4 and A5 check i0 and i1 - touch a key
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4	0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 o = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if i2 ≠ -1 and after i2		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 246 247	A03 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. Hon HoF Hc1 Hc2 PAR. Hd1 Hc2 PAR. Hd1 Separate Hd1 Hd2 Hd3 Hd4 Hd5 Hd6 PAR. POF Loc Sen	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h- h- 1 100	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4st daily defrost time 5st daily defrost time 5st daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access set-	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapor Condition Outgot RTC F Low 1 High	Alarridet Prorato	RMS ring ac ne keyp The property of the prope	ure liailure Failur Failur	Touch the Al Touch the Al Touch the Cl alarms Touch the Cl alarms Touch the Cl the procedur DESCR cabinet alarm evapor alarm conden alarm conden ture prictical ture prictical ture prictical ture probe a clock a low to alarm high to alarm door op power alarm	LARM key P or DOWN IN/STAND-E re IPTION probe ator probe tempera- bebe alarm g air tem- re probe ator 2 alarm larm emperature emperature emperature	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT - check P0 - check the integrity of the probe - check electrical nection set the date and time check A0, A1 and A2 check i0 and i1 - touch a key - check electrical nection
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 i0 i1 i2 i3	10 0 0 0 0 0 DEF. 5 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no		231 NO. 231 NO. 232 NO. 233 234 NO. 235 236 237 240 241 242 243 244 245 246 247	Ao3	5 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h- h- 1 100	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 3rd daily defrost time 4st daily defrost time 4st daily defrost time 5sh daily defrost time 4sh daily defrost time 5sh daily defrost time 4sh daily defrost time 5sh daily defrost time 4sh daily defrost time 4sh daily defrost time 4sh daily defrost time 5sh daily defrost time 4sh daily defrost time 4sh daily defrost time 4sh daily defrost time 5sh daily defrost time 4sh daily defrost time 4sh daily defrost time 5sh daily defrost time 5sh daily defrost time 5sh daily defrost time 4sh daily defrost time 5sh daily defrost defrost time 5sh daily defrost time 5sh daily defrost time 5sh daily defrost de	4 = disabled 5 = disabled like A01 like A01 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Critic Outgo RTC F Low 1 High Door Powe	Alarmet Prorator	ring active keypons in a control of the keypons in a contr	ure liailure Failur Failur	Touch the All Touch the Ulalarms Touch the Olalarms Touch the Olalarms Touch the Olalarms Touch the Olalarms Conden alarm pere evapora love to alarm high to alarm high to signal high co	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- obe alarm g air tem- ere probe ator 2 slaarm emperature emperature memperature sen alarm failure	RESET automatic	Itike OUT2 Itis s to scroll through the action for 60 s) to to ake no action for 60 s) to to ake no action for 60 s) to to to check the integrity of the probe check electrical innection to the probe check electrical innection to check A0, A1 and A2 check A0, A4 and A5 check i0 and i1 check electrical innection to check A13 check A13 check A13 check A13
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4	0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 246 247 248 249 250	A03 PAR. Hr0 PAR. H62 PAR. H01 H02 PAR. H66 H67 H67 H67 H67 H67 H68 PAR. H69 PAR. H70 PAR. H70 PAR. H70 PAR. H70 PAR. H70 PAR. H70 PAR. POF L0c PAR. PAR. PAR. PAR. PAR. PAR.	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 824 DEF.	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 3nd daily defrost time 4sh daily defrost time 5sh daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING	4 = disabled 5 = disabled like Ao1 like Ao1 like Ao1 MIN MAX. 0 = no 1 = yes MIN MAX. 0 999 min 0 = until door opened MIN MAX. 0 24 h MIN MAX. 0 24 h MIN MAX. 0 h h = disabled like HoF 0 h h = disabled like HoI li	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Condo Critic Outgo Evapo RTC F Low 1 High Door Powe Condo Comp	ALA View that the state of the	re keyp (1) ms b. Failu Prb. F mp. Pri Air Prb e errature errature wire wi	ure liailure Failur Failur	perms at locked. Touch the Al Touch the Di alarms Touch the Conden alarm evaporal alarm critical ture pri e outgoir peratur alarm door or power alarm door or power alarm high to alarm door or power alarm high co signal high co alarm	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- obe alarm og air tem- re probe ator 2 alarm temperature darm failure ondensation ondensation	key within : RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check PO - check the integrity of the probe - check electrical of nection set the date and time check A0, A1 and A2 check A0, A4 and A5 check i0 and i1 - touch a key - check electrical of nection check A13 - switch the device and on - check A14
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4	0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3nd daily defrost time 5st daily defrost time 5st daily defrost time 5st daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from kyconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Critic Outgo RTC F Low 1 High Door Powe	Alaridet Proratologiallur Femporatologiallur Fempor	ring ac ine keyp in ing ac ine keyp in ing ac ine keyp in	ure liailure Failur Failur	strms to locked. Touch the Al Touch the U alarms Touch the Conden alarm evapor alarm conden alarm conden alarm evapor alarm coutoir peratur alarm high to alarm door op power alarm high conden alarm multi-put ala	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- abe alarm g air tem- re probe ator 2 slarm emperature emperature emperature ondensation urpose in- rm	key within : RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check P0 - check the integrity of the probe - check electrical electric
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1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4	0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check* 1. 2. 3. 9.2 ALARN Cabin Evapo Critic Outgo RTC F Low 1 High Door Powe Cond. Comp	ALAA View that the state of the	ring ac ine keyp in ing ac ine keyp in ing ac ine keyp in	tive ala ad is no	strms to locked. Touch the Al Touch the U alarms Touch the Condent alarm peratur alarm probe a clock a low to alarm high to alarm high to alarm high co signal high co alarm multi-p put ala multi-p put ala multi-p	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- bobe alarm g air tem- re probe ator 2 slarm larm emperature emperature emperature ondensation urpose in- rm urpose in-	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check PO - check the integrity of the probe - check electrical of nection set the date and time check A0, A1 and A2 check i0 and i1 - touch a key - check electrical of nection check A13 - switch the device and on - check A14 check i5, i6, i15, i16, i19, i20 and i21 check i9, i20 and i21 switch the device off on
1.84	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4	0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if i2 ≠ -1 and after i2 0 = disabled 1 = energy saving 2 = multi-purpose input alarm 3 = high pressure alarm 4 = auxiliary load 2 on 5 = auxiliary load 2 on 5 = switch device on/off 7 = low pressure alarm		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check* 1. 2. 3. 9.2 ALARN Cabin Evapo Critic Outgo RTC F Low 1 High Door Powe Cond. Comp	ALAA View that the state of the	r Prb. Failtir Prb	tive ala ad is no	rms ot locked. Touch the Al Touch the U alarms Touch the C the procedur DESCR cabinet alarm evapor alarm conden alarm evapor alarm conden alarm evapor alarm conden alarm high ture pr e outgoir peratur alarm door op power alarm high to alarm high co signal high co alarm multi-p put ala multi-p put ala high	LARM key P or DOWN N/STAND-Erre IPTION probe ator probe tempera- obe alarm g air tem- e probe ator 2 alarm larm emperature emperature emperature ondensation urpose in- rm urpose in- rm	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check PO check the integrity of the probe check electrical of nection set the date and time check A0, A1 and A2 check i0 and i1 touch a key check electrical of nection check A13 switch the device and on check A14 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 switch the device off on check i5, i6, i8, i9, i16, i18, i19, i20 check i5, i6, i8, i9, i16, i18, i19, i20
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184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199	F35 F36 F37 F38 F39 F40 F41 F42 F43 PAR. i0 i1 i2 i3 i4 i5	10 0 0 0 0 0 0 0 DEF. 5	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving multi-purpose input function	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 0 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if i2 ≠ -1 and after i2 0 = disabled 1 = energy saving 2 = multi-purpose input alarm 4 = auxiliary load 1 on 5 = auxiliary load 2 on 6 = switch device on/off 7 = low pressure alarm 4 = auxiliary load 2 on 6 = switch device on/off 7 = low pressure alarm 8 = compressor 2 thermal switch alarm 8 = compressor 2 thermal switch alarm 0 = with contact closed		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao2 like Ao3 like	9.1 Check 1 1. 2. 3. 9.2 ALARN Cabin Evapo Condo Critic Outgo RTC F Low 1 High Door Powe Cond. Comp	Alaridet Prorator orator orato	ring acie keypp ing acie keypp ins b. Failu r Prb. F r 2 Prb acie keypp r 3 Prb acie keypp r 4 Prb acie keypp r 5 Prb acie keypp r 6 Prb acie keypp r 7 Prb acie keypp r 7 Prb acie keypp r 8 Prb acie keypp r 9 Prb r 9 Prb r 1 Prb r 2 Prb acie keypp r 1 Prb r 2 Prb acie keypp r 2 Prb acie keypp r 2 Prb acie keypp r 3 Prb acie keypp r 4 Prb acie keypp r 5 Prb acie keypp r 6 Prb r 7 Prb r 7 Prb r 7 Prb r 8 Prb r 9 Prb r	itive alad is not all ure all ure all ure. Failur. Failur.	arms ot locked. Touch the Al Touch the Cl alarms Touch the Cl alarms conden alarm evapor alarm conden alarm conden alarm conden alarm evapor alarm clock a low to alarm door op power alarm door op power alarm door op power alarm door op power alarm ligh to alarm door op power alarm door op power alarm ligh to	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- obe alarm og air tem- re probe ator 2 alarm temperature darm failure condensation urpose in- rm urpose in- rm pressure pressure	RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check PO - check the integrity of the probe - check electrical conection set the date and time check A0, A1 and A2 check i0 and i1 - touch a key - check electrical conection c check A13 - switch the device and on - check A14 c check i5, i6, i15, i16, i19, i20 and i21 switch the device off on - check i5, i6, i15, i16, i19, i20 and i21 switch the device off on - check i5, i6, i8, i9, i16, i18, i19, i20 i21 c check i5, i6, i6, i15, i16, i19, i20 and i21 switch the device off on - check i5, i6, i8, i9, i16, i18, i19, i20 i21 c check i5, i6, i6, i15, i16, i19, i20 and i21 c check i5, i6, i8, i9, i16, i18, i19, i20 i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21 c check i5, i6, i15, i16, i15, i16, i19, i20 and i21
184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 190	F35 F36 F37 F38 F39 F40 F41 F42 F43 I0 I1 I2 I3 I3 I4 I5	10 0 0 0 0 0 0 0 0 0 0 15 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving multi-purpose input function	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if 12 ≠ -1 and after i2 0 = disabled 1 = energy saving 2 = multi-purpose input alarm 3 = high pressure alarm 4 = auxiliary load 1 on 5 = auxiliary load 2 on 6 = switch device on/off 7 = low pressure alarm 8 = compressor thermal switch alarm 8 = compressor 2 thermal switch alarm 0 = with contact closed 1 = with contact closed 1 = with contact closed		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check 1. 2. 3. 9.2 ALARN Cabin Evapo Cond Critic Outgo Evapo Thigh Door Powe Cond. Comp High High High High	ALA View hat the state of the s	RMS ing ac ine keyp ine	re allure Failur Failur Failur	arms ot locked. Touch the Al Touch the Cl alarms Touch the Cl alarm evaporalarm conden alarm evaporalarm re critical ture probe a clock a low to alarm door org power alarm high to alarm multi-p put ala multi-p put ala high alarm low alarm multi-p put ala high alarm	LARM key P or DOWN N/STAND-Ere IPTION probe ator probe tempera- obe alarm g air tem- re probe ator 2 standarm emperature emperature emperature ondensation urpose in- rm pressure pressure essor ther- itch alarm essor 2	key within : RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check PO -check the integrity of the probe -check electrical conection set the date and time check A0, A1 and A2 check i0 and i1 -touch a key -check electrical conection check A13 switch the device and on -check A14 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 switch the device off on -check i5, i6, i8, i9, i16, i19, i20 and i21 check i5, i6, i18, i19, i20 i21 check i5, i6, i15, i16, i16, i19, i20 and i21 check i5, i6, i16, i17, i16, i19, i20 and i21 check i5, i6, i18, i19, i20 i21 check i5, i6, i15, i16, i16, i19, i20 and i21 check i5, i6, i15, i16, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21
184 185 186 187 188 188 189	F35 F36 F37 F38 F39 F40 F41 F42 F43 I0 I1 I2 I3 I3 I4 I5	10 0 0 0 0 0 0 0 0 0 0 15 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 4 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving multi-purpose input function	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if i2 ≠ -1 and after i2 0 = disabled 1 = energy saving 2 = multi-purpose input alarm 3 = high pressure alarm 4 = auxiliary load 1 on 5 = auxiliary load 2 on 6 = switch device on/off 7 = low pressure alarm 8 = compressor thermal switch alarm 0 = with contact closed 1 = with contact open 0 120 min if i5, i15 or i18 or i20 = 3 or 7, compressor on delay from alarm reset 0 15		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check* 1. 2. 3. 9.2 ALARN Cabin Evapor Condi Critic Outgo RTC F Low 1 High Door Power Cond. Comp	Alarridet Proratorion of the Proratorion of the Proratorion of the Proratorion of the Property	RMS ing ac ine keyp i	re allure Failur Failur Failur	stribute of the procedure of the procedu	LARM key P or DOWN N/STAND-Erre IPTION probe ator prob	key within : RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT C - check PO - check the integrity of the probe - check electrical connection Set the date and time check A0, A1 and A2 C check i0 and i1 - touch a key - check electrical connection C check A13 - switch the device and on - check A14 check i5, i6, i15, i16, i19, i20 and i21 switch the device off on - check i5, i6, i6, i8, i9, i16, i19, i20 and i21 switch the device off on - check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21
184 185 186 187 188 189 190 191 192 193 193 195 195 196 197 198 199	F35 F36 F37 F38 F39 F40 F41 F42 F43 i0 i1 i2 i3 i4 i5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	evaporator fans percentage 0-10 V evaporator fans from power-on 0-10 V evaporator fans proportional band (relative to set- point) maximum percentage 0-10 V evaporator fans in energy saving evaporator fans on delay from door closed evaporator fan mode in phase 1 thawing evaporator fan mode in phase 2 thawing evaporator fan mode in phase 3 thawing evaporator fan mode in phase 5 thawing DIGITAL INPUTS door switch input function door open alarm delay maximum compressor and evaporator fan off time with door open enable door open alarm saving multi-purpose input function multi-purpose input alarm delay number of multi-purpose input number of multi-purpose input	0 100% 1 25 °C/°F setpoint-F36 0 100% 0 240 s 0 = on if cooling is on and on if heating is on 1 = on like F39 like F39 like F39 like F39 like F39 MIN MAX. 0 = disabled 1 = compressor + evaporator fans off 2 = evaporator fans off 3 = cabinet light on 4 = compressor + evaporator fans off, cabinet light on 5 = evaporator fans off, cabinet light on 0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until closed 0 = no 1 = yes if 12 ≠ -1 and after i2 0 = disabled 1 = energy saving 2 = multi-purpose input alarm 3 = high pressure alarm 4 = auxiliary load 1 on 5 = auxiliary load 2 on 6 = switch device on/off 7 = low pressure alarm 8 = compressor thermal switch alarm 8 = compressor 2 thermal switch alarm 8 = compressor 120 min if i5, i15 or i18 or i20 = 3 or 7, compressor on delay from alarm reset 0 15 0 = disabled		231 NO. 232 NO. 233 234 NO. 235 236 237 238 NO. 239 240 241 242 243 244 NO. 245 247 248 249 250 NO.	Ao3	5 DEF. 0 DEF. 0 DEF. 1 1 100 -19 426 824 DEF. 1 DEF. 15	analogue output 3 configuration CLOCK enable clock ENERGY SAVING (if r5 = 0) maximum duration energy saving ENERGY SAVING IN REAL TIME (if r5 = 0) energy saving time maximum duration energy saving SWITCH ON/OFF IN REAL TIME time device switch-on time device switch-off 1st time reversible condenser fans on 2nd time reversible condenser fans on REAL-TIME DEFROST 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 5th daily defrost time 5th daily defrost time SECURITY enable ON/STAND-BY key enable keypad lock keypad sensitivity password to access settings from keypad level 1 password to access settings from EVconnect and EPoCA level 2 password to access settings from EVconnect and EPoCA DATA-LOGGING EVlinking data logger sampling interval select temperature for EVlinking	4 = disabled 5 = disabled like Ao1 like Ao1 MIN MAX. 0 = no	9.1 Check* 1. 2. 3. 9.2 ALARN Cabin Evapor Condi Critic Outgo RTC F Low 1 High Door Power Cond. Comp	Alarridet Proratorion of the Proratorion of the Proratorion of the Proratorion of the Property	RMS ing ac ne keyp ing ac ne	re allure Failur Failur Failur	strms to locked. Touch the Al Touch the U alarms Touch the Coabinet alarm evapor alarm critical ture probe a clock a low t alarm door op power alarm high t alarm multi-p put ala	LARM key P or DOWN N/STAND-Erre IPTION probe ator prob	key within : RESET automatic	Is s to scroll through the action for 60 s) to TO CORRECT Check PO -check the integrity of the probe -check electrical conection set the date and time check A0, A1 and A2 check i0 and i1 -touch a key -check electrical conection check A13 switch the device and on -check A14 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 switch the device off on -check i5, i6, i8, i9, i16, i18, i19, i20 i21 check i5, i6, i15, i16, i17, i16, i18, i19, i20 i21 check i5, i6, i15, i16, i17, i16, i18, i19, i20 i21 check i5, i6, i15, i16, i16, i19, i20 and i21 check i5, i6, i15, i16, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21 check i5, i6, i15, i16, i15, i16, i19, i20 and i21

			1				
Purpose of the	control device:		function cont	roller			
Construction o	f the control de	vice:	built-in electr	onic device			
Housing:			black, self-ex	tinguishing			
Category of he	at and fire resis	tance:	D				
Measurements	:		193.0 x 59.0 x 73.0 mm (7 5/8 x 2 5/16 x 7/8 in)				
Mounting meth	nods for the con	trol device:		ion on a plastic or metal par nolding flaps).			
Degree of prot	ection provided	by the casing:	stalled on a r	provided that the device is i netal panel from 0.8 to 1.5 m 1/16 in) thick			
Connection me							
	ort for remore in			e inputs, digital inputs, analog 1 ² (power supply, digital outpu			
Pico-Blade con	nector (TTL MO	DBUS port)					
Maximum perr	nitted length for	connection cabl	es:				
power supply:	10 m (32.8 ft)		analogue inpu	ıts: 10 m (32.8 ft)			
digital inputs:	10 m (32.8 ft)		analogue out	outs: 3 m (9.84 ft)			
	: 10 m (32.8 ft)		outputs 12	24 Vdc: 10 m (32.8 ft)			
port for remot	e indicator: 3 m	(9.84 ft)					
Operating tem	perature:			°C (from 23 to 140 °F)			
Storage tempe	erature:			0 °C (from -13 to 158 °F)			
Operating hum	nidity:			dity without condensate from			
			to 90 %				
Pollution statu	s of the control	device:	2				
Compliance:							
EMC 2014/30/	UE						
RoHS 2011/65			WEEE 2012/1	9/EU			
	egulation no. 19	07/2006	LVD 2014/35,				
Power supply:		-,200		(+10 % -15 %), max. 3 W			
	ods for the cont	rol device:	none	. 15 % 15 %, max. 5 W			
Rated impulse	withstand volta	ge:	4 kV				
Overvoltage ca			III				
	and structure:		A				
Analogue inpu			3 for configurable PTC, NTC or Pt 1000 prob				
PTC probes:	Type of sensor	r:	KTY 81-121 (990 Ω @ 25 °C, 77 °F)			
	Measurement			50 °C (from -58 to 302 °F)			
	Resolution:		0.1 °C (1 °F)				
NTC probes:	Type of sensor	r:		@ 25 °C, 77 °F)			
	Measurement		1	05 °C (from -40 to 221 °F)			
	Resolution:		0.1 °C (1 °F)	,			
Probes	Type of sensor	r:	1 kΩ @ 0 °C,	32 °F			
Pt 1000:	Measurement	field:	from -99 to 1	99 °C (from -146 to 390 °F)			
	Resolution:		0.1 °C (1 °F)				
Digital inputs:			1	e (door switch and multi-pu			
Voltage-free:		Type of contact	pose) t:	3.3 Vdc, 1 mA			
		Power supply:	-	none			
		Protection:		none			
Analogue outp	uts:		3 configurable	PWM or 0-10 V output			
PWM output:	Output:		11 Vdc (±159	%), 10 mA max			
	Frequency:		20 150 Hz				
	Protection:		none				
0-10 V output:		plicable imped-	1 kΩ				
	Resolution:		0.1 V				
Digital outputs	:	8 with sealed e EN 60079-15 s		cal relays in compliance with t			
K1 relay:				es. @ 250 Vac (30 A res. @ 2 Y238DN3 model)			
K2 relay:			SPDT, 8 A res				
K3 relay:			SPST, 8 A res				
K4 relay:			SPST, 8 A res				
K5 relay:			SPDT, 8 A res				
K6 relay:				es. @ 250 Vac			
K7 relay:				es. @ 250 Vac			
K8 relay:			SPDT, 8 A res				
The device gu		rced insulation b Extra Low Voltag	etween the dig	ital outputs (electro-mechanic			
Outputs 12		,	two, 2.5 A ma				
				24 Vdc will each deliver 12 V			
max. 2.5 A; if deliver 24 Vdc		a power supply	or 24 Vac, the	e outputs 12 24 Vdc will ea			
VUL			type 1				
Type 1 or Type		r Type 2 actions:	С				
	ures of Type 1 o	, pe 2 dedo					
Additional feat	ures of Type 1 o	, pe 2 dede	2.4 inch LCD	colour graphic display			
Additional feat Displays:	ures of Type 1 o	, pe 2 dedo	2.4 inch LCD built-in	colour graphic display			
Additional feat Displays: Alarm buzzer:		, , , , , , , , , , , , , , , , , ,		colour graphic display			
Type 1 or Type Additional feat Displays: Alarm buzzer: Communicatio 1 x TTL MODB	ns ports:	or the EVconnect	built-in				

app or EPoCA remote monitoring system

1 x remote indicator (according to the model)

N.B. X

The device must be disposed of according to local regulations governing the collection of electrical and electronic equipment.

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