EPoCA gateway (via Ethernet) in a RS-485 network of EPoCA compatible controllers



Then check that the remaining settings are appropriate; see the section CONFIGURA-TION PARAMETERS.

Disconnect the device from the mains. Make the electrical connection as shown in the section ELECTRICAL CONNECTION with-

out powering up the device.

EPoCA

PLEASE READ CAREFULLY

THE ENVIRONMENT

away



EV3W24

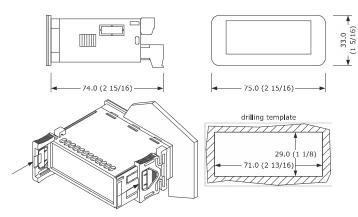
- Controllers for low temperature units
- Power supply 115... 230 VAC. Incorporated clock.

≙ 561

- Cabinet probe and evaporator probe (PTC/NTC).
- Door switch input.
- Compressor relay 16 A res. @ 250 VAC.
- Alarm buzzer.
- RS-485 MODBUS master port for network of 10 EPoCA-compatible controllers. plug and play Ethernet port for Internet gateway.
- Cooling or heating operation.

MEASUREMENTS AND INSTALLATION 1

Measurements in mm (inches). To be fitted to a panel, snap-in brackets provided.



INSTALLATION PRECAUTIONS

- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in)
- Ensure that the working conditions are within the limits stated in the <code>TECHNICAL</code> SPECIFICATIONS section.
- 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

ELECTRICAL CONNECTION

	N.B.		
<u>а</u>	- Use cables of an adequate	e section for the current	running through them.
7	- To reduce any electromage	gnetic interference conr	nect the power cables as far
~~	as possible from the signa	al cables	
	- Connect the RS-485 using	a twisted pair.	
	RS-485 MODBUS RS-485 MODBU		RS-485 MODBUS
	slave port slave port (or serial interface) (or serial interface)		slave port (or serial interface)
	of the 1st EPoCA of the 2nd EPoC compatible controller compatible control		of the 10th EPoCA compatible controller
	of the RS-485 of the RS-485 network network	of the RS-485 network	of the RS-485 network
	parameter bLE parameter bLE	<u>parameter bLE</u>	parameter bLE
	must be set to 1 must be set to		must be set to 10
	A+ B- GND A+ B- GND	A+ B- GND	A+ B- GND
		RS-485 network	
		K5-465 HELWOIK	
		modem	
	Ē×	Ŷ	
	t t voi	- mi	
	She	*	
	swit		
	RS-485 MODBUS master port	Ethernet	
		port	
	A+ B- GND		
	K4 K3 K1 K2 (u1 default = 0)		
		EV3W24N9R	
	max. 12 A		
		id iA Pb1 Pb2	id Pb3 Pb1 Pb2
	1 2 3 4 5 6	8 9 10 11 12	8 9 10 11 12
	$ \langle \varphi \rangle \leq \langle \varphi \rangle$		
. 5			
vlqqu 30. v	evap. Fan evap. Fan compressor defrost cabinet light (config.)	door switch multi-purpose cabinet (config.)	door switch auxiliary (config.) (config.) (config.) evap.
power supply			େ ଓଡ଼ା ଓ ଲାଟ
powi 1115	<u> </u>	P4 = 0 (default)	P4 = 1, 2 or 3

	out powering up th Power up the devic		.e.			SETT
4	USER INTERFACE	AND	MAIN FUNCTIONS		6.1	Setti
		eva		npressor temperature unit	2.	
			fan saving s	service of measurement		
comp					3.	*
	defrost	- 帯			4.	
		@ #00	╵╵╵╸┠┟╴	AUX → Ioad U → on/stand-by	5.	Ý
					6.	
		∋∈⊤ ↓			7.	Ý
		SET, ad lock	ON/STAND-BY, DOWN, escape, addition		8.	
			auxiliary function load	s	9.	
4.1	Switching the de	vice o	n/off		6.2	Set
1.	₽() 	If PC	DF = 1, touch the ON/STA	AND-BY key for 4 s.		N.B
			display will show the P5 v le, see the section ALARM	value ("cabinet temperature" default); IS.		- c
LED	ON compressor on		OFF compressor off	FLASHING - compressor protection active	^C o	- i1
*	-	inning	-	- setpoint setting active		(1
<u></u>	defrost or pre-dr active			defrost delay active dripping active	Check	that t
@	evaporator fan o	ו	evaporator fan off	evaporator fan stop active	1.	l f
НАССР	saved HACCP ala	rm	-	-	2.	ŕ
٢	energy saving ac	tive	-	-	3.	
2	request for cor sor service	npres-	-	 settings active access to additional functions 	4.	ŕ
			-	active	5.	Rep
°C/°F	view temperature			overcooling or overheating active		LAE
AUX	auxiliary load on		auxiliary load off	auxiliary load on by digital inputauxiliary load delay active		n d
Û	device off		device on	device on/off active		h n
If Loc =	= 1 (default) and	30 s h	ave elapsed without the	keys being pressed, the display will	6.	Ï
show th	e "Loc" label and t	he key	pad will lock automatical	у.	7.	í.
	Unlock keypad key for 1 s: the di	splav v	vill show the label " UnL ".			LAE
	Set the setpoint					Mo tuE
	hat the keypad is r	ot lock	ed.			UE
1.			ch the SET key.			Fri Sat
2.			ch the UP or DOWN key limits r1 and r2 (default "	within 15 s to set the value within -50 50")		Sur
3.	≙ SET	Tou	ch the SET key (or do not	operate for 15 s).	8.	
4.4	Activate manual	defros	t (if r5 = 0, default)		9.	
	hat the keypad is r		ed and that overcooling is	s not active.	6.3	Rest
1. If P3 =	1 (default), defros	1	,	evaporator temperature is lower than		N.B
the d2 t	hreshold.				Ö,	- C
4.5	Cabinet light on/					- t
1.	if u1 = 1, the dem	1	ch the ON/STAND-BY key switch on for the u6 dura		1.	
		-		-operated load switches on/off.	2.	
	Silence buzzer				3.	
Touch a If u1 =		alarm d	output switches off.			VAL
	ADDITIONAL FUN					149
	Activate/deactive hat the keypad is r			and manual energy saving	4.	
1.		Tou	ch the DOWN key.		4. 	
FUNCT	ION	CON	DITION	CONSEQUENCE	5.	
overco		r5 =	= 0, r8 = 1 and defrost active	the setpoint becomes "setpoint - r6", for the r7 duration	6.	f
overhe	ating	-	nd r8 = 1	the setpoint becomes "setpoint +	7.	
energy	saving	r5 =	0 and r8 = 2	r6", for the r7 duration the setpoint becomes "setpoint +	8.	Inte
		1		r4", at maximum for HE2 duration	1	+

-	3.	à set	Touch the SET key.
-	4.	₽©	Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.
	6	SETTINGS	
		Setting configurat	ion parameters
	1.	A SET	Touch the SET key for 4 s: the display will show the label "PA".
	2.	ASET	Touch the SET key.
	3.	f FNL ♥	Touch the UP or DOWN key within 15 s to set the PAS value (de-fault "-19").
	4.	≙ SET	Touch the SET key (or do not operate for 15 s): the display will show the label " \mathbf{SP} ".
	5.	f FNC ♥	Touch the UP or DOWN key to select a parameter.
	6.	- SET	Touch the SET key.
	7.	f FN⊂ ♥	Touch the UP or DOWN key within 15 s to set the value.
	8.	≙ SET	Touch the SET key (or do not operate for 15 s).
	9.	≙set	Touch the SET key for 4 s (or do not operate for 60 s) to exit the procedure.
		•	• •

the date, time and day of the week

	N.B.				
				ct the device from the mains within two minutes since the setting	
0				day of the week.	
÷				te, time and day of the week of a controller of the RS-485 network oCA remote monitoring system) this setting will automatically be	
				e controllers of the network	
	upu	atou ini	un tri		
heck	that the	keypad	is no	t locked.	
1.	I EN	c∨∕	I	Touch the DOWN key for 4 s.	
1.	1	- ~			
2.	∳ FN	_\₩ 	٠	Touch the UP or DOWN key within 15 s to select the label "rtc".	
3.	≙ €	JET		Touch the SET key: the display will show the label " yy " followed by the last two figures of the year.	
4.	∳ FN		وا	Touch the UP or DOWN key within 15 s to set the year.	
5.	Repea	t action	s 3. a	nd 4. to set the next labels.	
	LAB.	DESC	RIPTI	ON OF THE NUMBERS FOLLOWING THE LABEL	
	n	month	n (01.	12)	
	d	day (C)1 3	1)	
	h	time (•	
	n	minute	e (00.		
5.	 a •	SET		Touch the SET key: the display will show the label for the day of the week.	
7.	√ FN	_∧∜	ŧ	Touch the UP or DOWN key within 15 s to set the day of the week.	
	LAB.	DESCR	RIPTI	ON	
	Mon	Monda	<u> </u>		
	tuE	Tuesd	-		
	UEd	Wedne			
	thu	Thurso	day		
	Fri	Friday			
	Sat	Saturo			
	Sun Sunday				
	-				
3.	1	JET	ĺ	Touch the SET key: the device will exit the procedure.	
	a e			Touch the SET key: the device will exit the procedure. Touch the ON/STAND-BY key to exit the procedure beforehand.	
9.	- 9) C			
9.	- 9) C		Touch the ON/STAND-BY key to exit the procedure beforehand.	
9.	Restor	ET	actor	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default	
9.	Restor	ET	actor	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default	
9.	Restor	e the fa	actor the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default	
9.	Restor	e the fa	actor the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section CONFIGURATION	
9. .3 Ç	Restor N.B. - Che PAR - the	e the fa	actor the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section CONFIGURATION	
9. .3 Č	Restor N.B. - Che <i>PAK</i> - the	e the fa	actor the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section CONFIGURATION stomized settings overwrites the default.	
9. .3 1. 2.	Restor N.B. - Che <i>PAK</i> - the	e the fa	actor the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ".	
9. 3.3 1. 2.	Restor N.B. - Che <i>PAK</i> - the	e the fa	the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value.	
9.	Restor N.B. - Che PAR - the	e the fa ck that ck that storing SET SET	the f	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value.	
9. 5.3 1. 2.	Restor N.B. - Che PAR - the \triangle s \triangle s	e the fa	actor the f RS. of cu	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value. ON	
9. .3 1. 2. 3.	Restor N.B. - Che <i>PAR</i> - the 25 25 25 25 165 161 161	e the fa ck that ck that storing SET SET	actor the f RS. of cu	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value. ON store the factory settings (default) ore customized settings as default Touch the SET key (or do not operate for 15 s): the display will	
9. 5.3 1. 2. 3.	Restor N.B. - Che <i>PAR</i> - the 25 25 25 25 165 161 161	e the fa	actor the f RS. of cu	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value. ON store the factory settings (default)	
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5.3 1. 2.	Restor N.B. - Che <i>PAR</i> - the \triangle § \triangle § \triangle § \triangle § \triangle § \triangle §	e the fa ck that ck that storing SET SET Value Value SET	actor the f RS. of cu	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the SET key. Touch the UP or DOWN key within 15 s to set the value. ON store the factory settings (default) re customized settings as default Touch the SET key (or do not operate for 15 s): the display will show the label " dEF " (when value " 149 " is set) or the label " MAP " (when value " 161 " is set).	
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 9. 5.3 1. 2. 3. 4. 5. 6. 7. 	Restor N.B. Che PAR I Image: Che PAR I Image: Che VAL 161 I Image: Che VAL 161 I Image: Che VAL 161 I Image: Che Interrut Image: Che	e the fa ck that storing SET SET DESCI Value SET SET SET SET SET	actor the f RS. of cu b ro f cu to res to stc	Touch the ON/STAND-BY key to exit the procedure beforehand. y settings (default) and store customized settings as default factory settings are appropriate; see the section <i>CONFIGURATION</i> stomized settings overwrites the default. Touch the SET key for 4 s: the display will show the label " PA ". Touch the SET key. Touch the UP or DOWN key within 15 s to set the value. ON store the factory settings (default) re customized settings as default Touch the SET key (or do not operate for 15 s): the display will show the label " dEF " (when value " 149 " is set) or the label " MAP " (when value " 161 " is set). Touch the UP or DOWN key within 15 s to set " 4 ". Touch the SET key. Touch the SET key. Touch the SET key. Touch the SET key (or do not operate for 15 s): the display will show for 4 s "" flashing, then the device will exit the procedure.	

Fit the termination of the first and last controller of the RS-485 network. The device is always the first controller of the network: to fit the termination, place microswitch 1 in position ON.

configurable input

PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque.
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the pow-
- 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 doing any type of maintenance.
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network.

FIRST-TIME

- Install following the instructions given in the section MEASUREMENTS AND INSTALLA-TION.
- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal test will be run.

The test normally takes a few seconds, when it is finished the display will switch off.

3. Configure the device as shown in the section Setting configuration parameters. Recommended configuration parameters for first-time use.

PAR.	DEF.	PARAMETER	MIN MAX.
SP	0.0	setpoint	r1 r2
PO	1	probe type	0 = PTC $1 = NTC$
P2	0	temperature unit of measurement	$0 = ^{\circ}C$ $1 = ^{\circ}F$
d1	0	defrost type	0 = electric 1 = hot gas
			2 = compressor stopped

View/delete compressor functioning hours and view comp. start-up number 5.2 Check that the keypad is not locked.

Touch the DOWN key for 4 s.

1.

2.

3.

5.

6.

1.

2.

- Touch the UP or DOWN key within 15 s to select a label. LAB. DESCRIPTION CH view compressor functioning hours (hundreds) rCH delete compressor functioning hours
- nS1 compressor start-up number (thousands) ≙SET Touch the SET key. € AT I Touch the UP or DOWN key to set "149" (when label "rCH" is selected). ≙ SET Touch the SET key. Touch the ON/STAND-BY key (or do not operate for 60 s) to exit @(|)
 - the procedure.

5.3 View the temperature detected by the probes Check that the keypad is not locked.

- FNC 🗸 Touch the DOWN key for 4 s. Touch the UP or DOWN key within 15 s to select a label.
- LAB. DESCRIPTION cabinet temperature (if P4 = 0, 1 or 2) Pb1 inlet air temperature (if P4 = 3) Pb2evaporator temperature (if P3 = 1 or 2)Pb3auxiliary temperature (if P4 = 1, 2 or 3)

Pb4 calculated product temperature (CPT; if P4 = 3)



7 CONFIGURATION PARAMETERS

Ω≡	N.	PAR.	DEF.	SETPOINT	MIN MAX.
	1	SP	0.0	setpoint	r1 r2
	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
	2	CA1	0.0	cabinet probe offset	-25 25 °C/°F
					if P4 = 3, air in probe offset
	3	CA2	0.0	evaporator probe offset	-25 25 °C/°F
	4	CA3	0.0	auxiliary probe offset	-25 25 °C/°F
	5	PO	1	probe type	0 = PTC $1 = NTC$
	6	P1	1	enable °C decimal point	0 = no 1 = yes
	7	P2	0	temperature unit of measure-	$0 = °C \qquad 1 = °F$
				ment	
	8	P3	1	evaporator probe function	0 = disabled
\cap					1 = defrost + fan
U,					2 = fan
	9	P4	0	configurable input function	0 = digital input
					1 = condenser probe
					2 = critical temperature probe
					3 = air out probe
					if P4 = 3, regulation temperature
					= product temperature (CPT)
	10	P5	0	value displayed	0 = regulation temperature
					1 = setpoint
					2 = evaporator temperature
					3 = auxiliary temperature
					4 = air in temperature

EVCO S	n A I	EV/2W/2	1 Instru	ction sheet ver. 1.0 Code 1043W24E	102 Page 2 of 2 PT 15/20
EVCO 3.	11	P7	5	air in weight for calculated prod-	0 10 % x 10
				uct temperature (CPT)	$CPT = \{ [(P7 x (air in)] + [(100 - P7) x (air out)] : \}$
	12	P8	5	display refresh time	100} 0 250 s : 10
	N.	PAR.	DEF.	REGULATION	MIN MAX.
	13 14	r0 r1	2.0 -50	setpoint differential minimum setpoint	1 15 °C/°F -99 °C/°F r2
	15 16	r2 r4	50.0 0.0	maximum setpoint setpoint offset in energy saving	r1 199 °C/°F 0 99 °C/°F
	17	r5	0.0	cooling or heating operation	0 = cooling
*	18	r6	0.0	setpoint offset in overcool-	1 = heating 0 99 °C/°F
	19	-7	30	ing/overheating	0 240 min
	20	r7 r8	0	overcooling/overheating duration DOWN key additional function	0 240 min 0 = disabled
					 1 = overcooling/overheating 2 = energy saving
	21	r12	0	position of the r0 differential	0 = asymmetric 1 = symmetric
	N.	PAR.	DEF.	COMPRESSOR	MIN MAX.
	22	CO	0	compressor on delay after pow- er-on	0 240 min
	23	C2	3	compressor off minimum time	0 240 min
	24 25	C3 C4	0 10	compressor on minimum time compressor off time during cabi-	0 240 s 0 240 min
	26	C5	10	net probe alarm compressor on time during cabi-	0 240 min
(A)				net probe alarm	
	27	C6	80.0	threshold for high condensation warning	0 199 °C/°F differential = 2 °C/4 °F
	28	C7	90.0	threshold for high condensation alarm	0 199 °C/°F
	29	C8	1	high condensation alarm delay	0 15 min
	30	C10	0	compressor hours for service	0 999 h x 100 0 = disabled
	31	C11	0	second compressor switch-on de-	0 240 s
	32	C13	0	lay number of start-ups for compres-	0 10
	N.	PAR.	DEF.	sor rotation DEFROST (if r5 = 0)	0 = disabled MIN MAX.
	33	d0	8	automatic defrost interval	0 99 h
					0 = only manual if d8 = 3, maximum interval
	34	d1	0	defrost type	0 = electric 1 = hot gas
	35	d2	8.0	threshold for defrost end	2 = compressor stopped -99 99 °C/°F
	36	d3	30	defrost duration	0 99 min
	37	d4	0	enable defrost at power-on	se P3 = 1, maximum duration 0 = no 1 = yes
	38	d5	0	defrost dealy after power-on	0 99 min
	39	d6	2	value displayed during defrost	0 = regulation temperature 1 = display locked
	40	d7	2	dripping time	2 = dEF label 0 15 min
	41	d8	0	defrost interval counting mode	0 = device on hours
					1 = compressor on hours 2 = hours evaporator tem-
					perature < d9 3 = adaptive
					4 = real time
•	42	d9	0.0	evaporation threshold for auto- matic defrost interval counting	-99 99 °C/°F
	43 44	d11 d15	0 0	enable defrost timeout alarm compressor on consecutive time	0 = no 1 = yes 0 99 min
		and	ľ	for hot gas defrost	0 >> 11111
	45	d16	0	pre-dripping time for hot gas de- frost	0 99 min
	45 46	d16 d18	0 40	pre-dripping time for hot gas de-	0 999 min
				pre-dripping time for hot gas de- frost	0 999 min if compressor on + evapora- tor temperature < d22
				pre-dripping time for hot gas de- frost	0 999 min if compressor on + evapora-
	46	d18	40	pre-dripping time for hot gas de- frost adaptive defrost interval	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual
	46	d18	40	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min
	46	d18 d19	40	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min
	46 47 48	d18 d19 d20	40 3.0 180	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled
	46 47 48 49	d18 d19 d20 d21	40 3.0 180 200	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled
	46 47 48	d18 d19 d20	40 3.0 180	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera-
	46 47 48 49	d18 d19 d20 d21	40 3.0 180 200	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost for defrost after power-on and overcooling evaporation threshold for adap-	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F
	46 47 48 49	d18 d19 d20 d21 d22 d22	40 3.0 180 200 -2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX.
	46 47 48 49 50	d18 d19 d20 d21 d22	40 3.0 180 200 -2.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature)	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature
	46 47 48 49 50	d18 d19 d20 d21 d22 d22	40 3.0 180 200 -2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature
	46 47 48 49 50 N. 51	d18 d19 d20 d21 d22 d22 PAR. AA	40 3.0 180 200 -2.0 DEF. 0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature
	46 47 48 49 50 50 N. 51 52	d18 d19 d20 d21 d22 d22 PAR. AA A1	40 3.0 180 200 -2.0 DEF. 0 -10.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint
	46 47 48 49 50 50 N. 51 52	d18 d19 d20 d21 d22 d22 PAR. AA A1	40 3.0 180 200 -2.0 DEF. 0 -10.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled
	46 47 48 49 50 50 8 51 52 53	d18 d19 d20 d21 d22 d22 AA AA A1 A2	40 3.0 180 200 -2.0 DEF. 0 -10.0 2	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute
	46 47 48 49 50 50 8 51 51 52 53 54	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4	40 3.0 200 -2.0 DEF. 0 -10.0 2 10.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 <u>MIN MAX.</u> 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = ausiliary temperature -99 99 °C/°F
	46 47 48 49 50 50 8 51 51 52 53 54	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4	40 3.0 200 -2.0 DEF. 0 -10.0 2 10.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type high temperature alarm type	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F
	46 47 48 49 50 50 51 52 53 54 55	d18 d19 d20 d21 d22 d22 PAR. AA A1 A2 A4 A5	40 3.0 180 200 -2.0 DEF. 0 -10.0 2 10.0 2	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F
	46 47 48 49 50 50 50 50 50 51 52 53 55 55 56 57	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 12 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F
	46 47 48 49 50 50 51 52 53 52 53 55 55 55 55 55 55 55 57 58	d18 d19 d20 d21 d22 d22 A2 A3 A4 A5 A4 A5 A6 A7 A8	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 112 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min
	46 47 48 49 50 50 50 50 50 51 52 53 55 55 56 57	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 12 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af-	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F
	46 47 48 49 50 50 51 52 53 52 53 55 55 55 55 55 55 55 57 58	d18 d19 d20 d21 d22 d22 A2 A3 A4 A5 A4 A5 A6 A7 A8	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 112 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter dor closing power failure duration for alarm	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min
	46 47 48 49 50 50 51 51 52 53 52 53 53 55 55 55 56 57 58 59	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 115 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re-	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min
	46 47 48 49 50 50 50 50 50 51 52 53 53 55 55 55 56 57 58 59 60	d18 d19 d20 d21 d22 PAR. AA A1 A2 A4 A5 A6 A7 A8 A9 A10	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 112 15 15 15 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter dor closing power failure duration for alarm recording	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 99 min x 10 0 240 min 0 240 min 0 240 min
	46 47 48 49 50 51 51 52 53 52 53 54 55 55 55 55 56 57 58 59 60 61	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A11	40 3.0 180 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 12 15 15 15 15 10 2.0	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during	0 999 minif compressor on + evaporator temperature < d22
	46 47 48 49 50 51 51 52 53 52 53 53 55 55 55 55 57 58 59 60 61 N.	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11	40 3.0 180 200 -2.0 -2.0 0 -10.0 2 10.0 2 10.0 2 115 15 15 15 15 10 2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS	0 999 min if compressor on + evapora- tor temperature < d22
	46 47 48 49 50 51 51 52 53 52 53 53 55 55 55 55 57 58 59 60 61 N.	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11	40 3.0 180 200 -2.0 -2.0 0 -10.0 2 10.0 2 10.0 2 115 15 15 15 15 10 2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during	0 999 minif compressor on + evaporator temperature < d22
	46 47 48 49 50 51 51 52 53 52 53 53 55 55 55 55 57 58 59 60 61 N.	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11	40 3.0 180 200 -2.0 -2.0 0 -10.0 2 10.0 2 10.0 2 115 15 15 15 15 10 2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during	0 999 minif compressor on + evaporator temperature < d22
	46 47 48 49 50 51 52 53 52 53 54 55 55 55 56 57 58 59 60 61 N. 62	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 PAR. F0	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 12 15 15 15 15 15 15 15 15 15 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter dor closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation	0 999 minif compressor on + evaporator temperature < d22
•••	46 47 48 49 50 51 51 52 53 52 53 53 55 55 55 55 57 58 59 60 61 N.	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11	40 3.0 180 200 -2.0 -2.0 0 -10.0 2 10.0 2 10.0 2 115 15 15 15 15 10 2.0 DEF.	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation	0 999 minif compressor on + evaporator temperature < d22
•	46 47 48 49 50 51 52 53 52 53 54 55 55 55 56 57 58 59 60 61 N. 62	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 PAR. F0	40 3.0 200 -2.0 -2.0 -10.0 2 10.0 2 10.0 2 12 15 15 15 15 15 15 15 15 15 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter dower-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter dor closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation evaporator fan mode during de-	0 999 minif compressor on + evaporator temperature < d22
•	46 47 48 49 50 51 52 53 54 55 55 55 57 57 58 59 60 61 8 9 60 61 8 9 62 63	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A4 A5 A4 A5 A4 A5 A6 A7 A8 A9 A100 A11 PAR. F0 F1	40 3.0 180 200 -2.0 DEF. 0 -10.0 2 10.0 2 10.0 2 15 15 15 15 15 15 15 15 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarm delay af- ter defrost high temperature alarm delay af- ter defrost high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation evaporator fan mode during de- frost and dripping evaporator fan mode during de- frost and dripping	0 999 minif compressor on + evaporator temperature < d22
•••	46 47 48 49 50 51 51 52 53 52 53 53 55 55 57 58 57 58 57 58 59 60 61 8 7 8 9 60 61 8 9 62 63 64	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A4 A5 A4 A5 A4 A5 A6 A7 A8 A9 A110 PAR. F0 F1 F2	40 3.0 180 200 -2.0 -2.0 -10.0 2 10.0 2 12 15 15 15 15 15 15 15 15 15 15 15 15 15	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter door closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation evaporator fan mode during de- frost and dripping	0 999 minif compressor on + evaporator temperature < d22
•	46 47 48 49 50 51 52 53 54 55 55 57 57 57 58 57 57 57 58 59 60 61 8 59 60 61 8 59 60 61 8 59 60 61 62 62 63 64 65 66	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A4 A5 A4 A5 A4 A5 A6 A7 A8 A9 A10 A11 PAR. F0 F1 F2 F3 F4	40 3.0 180 200 -2.0 DEF. 0 -10.0 2 10.0 10.0 2 10.0 2 10.0 10.0 2 10.0 1	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter defrost high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high/low temperature alarms de- lay power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation evaporator fan off maximum time evaporator fan off maximum time	0 999 minif compressor on + evaporator temperature < d22
•••	46 47 48 49 50 51 51 52 53 53 52 53 53 54 55 55 57 58 59 60 61 8 59 60 61 8 59 60 61 8 59 60 61 8 59 60 61 8 59 60 61 8 62 62 63 64 65	d18 d19 d20 d21 d22 PAR. A1 A2 A4 A5 A6 A7 A8 A9 A10 A11 PAR. F0 F1 F2 F3	40 3.0 180 200 -2.0 DEF. 0 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 10.0 2 115 15 15 15 15 15 10 2.0 DEF. 10 2 12 15 15 15 10 2.0 2.0 2.0 2.0 1.0 2.0 1.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	pre-dripping time for hot gas de- frost adaptive defrost interval threshold for adaptive defrost (relative to optimal evaporation temperature) compressor on consecutive time for defrost compressor on consecutive time for defrost after power-on and overcooling evaporation threshold for adap- tive defrost interval counting (relative to optimal evaporation temperature) ALARMS select value for high/low temper- ature alarms threshold for low temperature alarm low temperature alarm type threshold for high temperature alarm high temperature alarm type high temperature alarm delay af- ter power-on high/low temperature alarms de- lay high temperature alarm delay af- ter defrost high temperature alarm delay af- ter dor closing power failure duration for alarm recording high/low temperature alarms re- set differential FANS evaporator fan mode during normal operation time evaporator fan off maximum time	0 999 min if compressor on + evapora- tor temperature < d22 0 = only manual 0 40 °C/°F optimal evaporation tempera- ture - d19 0 999 min 0 = disabled 0 500 min if (regulation temperature - setpoint) > 10°C/20 °F 0 = disabled -10 10 °C/°F optimal evaporation tempera- ture + d22 MIN MAX. 0 = regulation temperature 1 = evaporator temperature 2 = auxiliary temperature -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute -99 99 °C/°F 0 = disabled 1 = relative to setpoint 2 = absolute 0 240 min 0 240 min 0 240 min 0 240 min 0 240 min 1 15 °C/°F MIN MAX. 0 = off 1 = on 2 = according to F15 and F16 if compressor on 3 = thermoregulated (with F1) if compressor on -99 99 °C/°F 0 = off 1 = on 2 = according to F15 and F16 if compressor on 3 = thermoregulated (with F1) if compressor on -99 99 °C/°F

	68	F7	5.0	threshold for evaporator fan on after dripping (relative to set-	-99 99 °C/°F setpoint + F7
	69	F9	0	point) evaporator fan off delay after	0 240 s
	70	F11	15.0	compressor off threshold for condenser fan on	if FO = 2 0 99 °C/°F
					differential = 2 °C/4 °F
	71	F12	30	condenser fan off delay after compressor off	0 240 s if P4 ≠ 1
	72	F15	0	evaporator fan off time with compressor off	0 240 s if F0 = 2
	73	F16	1	evaporator fan on time with compressor off	0 240 s if F0 = 2
	N. 74	PAR. i0	DEF.	DIGITAL INPUTS door switch input function	MIN MAX. 0 = disabled
	75	i1	0	door switch input activation	 compressor + evaporator fan off evaporator fan off cabinet light on compressor + evaporator fan off, cabinet light on evaporator fan off + cabinet light on evaporator fan off + cabinet light on
	76	i2	30	open door alarm delay	1 = with contact open -1 120 min
	77	i3	15	regulation inhibition maximum	-1 = disabled -1 120 min
	78	i5	2	time with door open door switch/multi-purpose input	-1 = until the closing 0 = disabled
€	79	i6	0	function door switch/multi-purpose input activation	1 = energy saving 2 = iA alarm 3 = button-operated load on 4 = device on/off 5 = Cth alarm 6 = th alarm 0 = with contact closed 1 = with contact open
	80	i7	0	multi-purpose input alarm delay	-1 120 min -1 = disabled
					if i5 = 5 or 6, compressor on
	81	i10	0	door closed consecutive time for energy saving	delay after alarm reset 0 999 min after regulation temperature < SP
	82	i13	180	number of door openings for de-	0 = disabled 0 240
	83	i14	32	frost door open consecutive time for	0 = disabled 0 240 min
	N.	PAR.	DEF.	defrost DIGITAL OUTPUTS	0 = disabled MIN MAX.
	84	u1	0	auxiliary output configuration	0 = cabinet light 1 = demisting 2 = button-operated load 3 = alarm 4 = door heaters 5 = heater for neutral zone 6 = condenser fan
×	85	u2	0	enable cabinet light and button-	7 = on/stand-by $0 = no \qquad 1 = yes$
, ,	86	u4	0	operated load in stand-by enable alarm output off silencing	manual 0 = no 1 = yes
	87	u5	-1.0	the buzzer threshold for door heaters on	-99 99 °C/°F
	88	u6	5	demisting on duration	differential = 2 °C/4 °F 1 120 min
	89	u7	-5.0	neutral zone threshold for heat- ing (relative to setpoint)	-99 99 °C/°F differential = 2 °C/4 °F
	N	DAD	DEE	-	setpoint + u7
€ €	N. 90	PAR. HE2	DEF.	ENERGY SAVING (if r5 = 0) energy saving maximum duration	MIN MAX. 0 999 min
	N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if	-1 = until the door opening MIN MAX.
	91	H01	0	r5 = 0) Monday energy saving time	0 23 h
	92	H02	0	Monday energy saving maximum duration	0 24 h
	93 94	H03 H04	0	Tuesday energy saving time Tuesday energy saving maximum duration	0 23 h 0 24 h
	95 96	H05 H06	0	Wednesday energy saving time Wednesday energy saving maxi-	0 23 h 0 24 h
<u> </u>	97	H07	0	mum duration Thursday energy saving time	0 23 h
-	98	H08	0	Thursday energy saving maxi- mum duration	0 24 h
	99 100	H09 H10	0 0	Friday energy saving time Friday energy saving maximum	0 23 h 0 24 h
	101	H11	0	duration Saturday energy saving time	0 23 h
	102	H12	0	Saturday energy saving maxi- mum duration	0 24 h
	103	H13	0	Sunday energy saving time	0 23 h
	104	H14	0	Sunday energy saving maximum duration	0 24 h
	N. 105	PAR. Hd1	DEF. h-	REAL TIME DEFROST (if d8 = 4) 1st daily defrost time	MIN MAX. h- = disabled
≜ O	106 107	Hd2 Hd3	h- h-	2nd daily defrost time 3rd daily defrost time	h- = disabled h- = disabled
۰.	108 109	Hd4 Hd5	h-	4th daily defrost time 5th daily defrost time	h-= disabled h-= disabled
	110	Hd6	h- h-	6th daily defrost time	h- = disabled
~	N. 111	PAR. POF	DEF.	SAFETIES enable ON/STAND-BY key	MIN MAX. 0 = no 1 = yes
\heartsuit	112 113	PAS PA1	-19 426	password level 1 password	-99 999 -99 999
~	114 N.	PA2 PAR.	824 DEF.	level 2 password REAL TIME CLOCK	-99 999 MIN MAX.
9	115	Hr0	0	enable clock	0 = no 1 = yes
	N. 116	PAR. bLE	DEF. 1	DATA-LOGGING reserved	MIN MAX. do not modify
1	<u>117</u> 118	rE0 rE1	15	data-logger sampling interval recorded temperature	0 240 min 0 = none 1 = cabinet 2 = evaporator 3 = auxiliary 4 = cabinet and evaporator 5 = all
	N. 119	PAR.	DEF.	MODBUS MODBUS address	MIN MAX.
Id	119	LA Lb	247	MODBUS address MODBUS baud rate	1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud parity even

COD.	DESCR		RESET		REMEDIES		
Pr1			automa	tic	- check P0		
Pr1 Pr2		probe alarm ator probe alarm	automa		 cneck PU check probe integri 	tv	
Pr2 Pr3		y probe alarm	automa		 check probe integri check electrical con 		
rtc	clock a	51	manua		set date, time and day		
AL		nperature alarm	automa		check AA, A1 and A2		
AH		mperature alarm	automa		check AA, A4 and A5		
id		por alarm	automa		check i0 e i1		
PF	<u> </u>	failure alarm	manua		- touch a key		
					- check electrical con	inection	
сон	high co	ndensation warnin	ng automa	itic	check C6		
CSd	high co	ndensation alarm	manua		- switch the device of	ff and on	
					- check C7		
iA	1	urpose input alarn			check i5 and i6		
Cth		essor thermal sw	itch automa	itic	check i5 and i6		
	alarm						
th	global 1	hermal switch ala	rm manua		- switch the device of	tt and on	
dFd	dofre-'	timeout clores		1	check i5 and i6 touch a key		
ura	uerrost	timeout alarm	manua		 touch a key check d2, d3 and d 	11	
	I		I		- check uz, us and u		
9	TECHN	CAL SPECIFICAT	TIONS				
,		OAL OF LOT FOAT	nons				
Purpos	se of the	control device		Functi	on controller		
		f the control device	e		electronic device		
Contai					self-extinguishing		
		at and fire resistar	nce	D			
	rements			75.0	33.0 x 74.0 mm (2 1	5/16 x 1 5/16	
				2 15/			
Mount	ing meth	ods for the contro	l device		fitted to a panel, snap	-in brackets pro	
				vided	· .	· · ·	
Degre	e of pro	ection provided b	by the cover	IP65	ront)		
ing							
	ection me						
Remov	vable scr	ew terminal blocks	s for wires up	to 1.5 r	nm ² and 2.5 mm ²		
		nector (reserved)		-	telephone connector		
		nitted length for co	onnection cal	1			
		10 m (32.8 ft)		1	ue inputs: 10 m (32.8		
-		10 m (32.8 ft)		Digita	outputs: 10 m (32.8 f	t)	
		JS port: 1,000 m	(3,280 ft)				
	ting tem) to 55 °C (from 32 to		
	ge tempe				From -25 to 70 °C (from -13 to 158 °F)		
		ucuty/		Relative humidity without condensate from			
Operating humidity						condensate from	
				10 to		condensate from	
Polluti	on statu	s of the control dev	vice			condensate from	
Polluti Confor	on statu: rmity	s of the control dev		10 to 2	20%		
Polluti Confor	on statu	s of the control dev	vice WEEE 2012/1	10 to 2	REACH (E	C) Regulatio	
Polluti Confor RoHS	on status rmity 2011/65	of the control dev /CE V		10 to 2 9/EU	REACH (E 1907/2006		
Polluti Confor RoHS EMC 2	on status rmity 2011/65	of the control dev /CE V		10 to 2 9/EU LVD 2	REACH (E 1907/2006 014/35/UE	C) Regulatio	
Polluti Confor RoHS EMC 2	on status rmity 2011/65	of the control dev /CE V		10 to 2 9/EU LVD 2 115	REACH (E 1907/2006 114/35/UE 230 VAC (+10% -15%	C) Regulatio	
Polluti Confor RoHS EMC 2 Power	on status rmity 2011/65 014/30/ supply	S of the control dev /CE V JE	WEEE 2012/1	10 to 2 9/EU LVD 2 115 Hz), n	REACH (E 1907/2006 014/35/UE	C) Regulatio	
Polluti Confor RoHS EMC 2 Power Earthi	on status rmity 2011/65 014/30/ supply ng metho	JE	VEEE 2012/1	10 to 2 9/EU LVD 2 115	REACH (E 1907/2006 114/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated	C) Regulatio	
Polluti Confor RoHS EMC 2 Power Earthin Rated	on status rmity 2011/65 0014/30/ supply ng metho impulse-	JE Ods for the control dev	VEEE 2012/1	10 to 2 9/EU LVD 2 115 Hz), n None	REACH (E 1907/2006 114/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated	C) Regulatio	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v	on status rmity 2011/65 014/30// supply ng metho impulse- voltage c	/CE V JE bds for the control withstand voltage ategory	VEEE 2012/1	10 to 2 9/EU LVD 2 115 Hz), n None 2,5 K	REACH (E 1907/2006 114/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated	C) Regulatio	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa	on status rmity 2011/65 014/30// supply ng metho impulse- voltage c	JE Ods for the control dev	VEEE 2012/1	10 to 2 9/EU LVD 2 115 Hz), n None 2,5 KV II A	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated	C) Regulatic	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock	on statu: rmity 2011/65 014/30// supply ng metho impulse- voltage c are class	/CE V JE bds for the control withstand voltage ategory	VEEE 2012/1	10 to 2 9/EU LVD 2 115 Hz), n None 2,5 KV II A Incorp	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu	C) Regulatic 5), 50/60 Hz (± m battery	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock Clock	on status rmity 2011/65 014/30// supply ng methor impulse- voltage c are class drift	CE V CE V JE bds for the control withstand voltage ategory and structure	device	10 to 2 9/EU LVD 2 115 Hz), n None 2,5 KV II A Incorp ≤ 60 ±	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated	C) Regulatic 5), 50/60 Hz (± m battery	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over Softwa Clock Clock	on status rmity 2011/65 014/30// supply ng methor impulse- voltage c are class drift	/CE V JE bds for the control withstand voltage ategory	device	10 to 2 9/EU LVD 2 115 Hz), n None 2,5 KV II A Incorp ≤ 60 ±	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu /month at 25 °C (77 °C	C) Regulatic 5), 50/60 Hz (± m battery	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock Clock Clock power	on statu: rmity 2011/65 014/30/ supply ng metho impulse- voltage c are class drift battery supply	CE V CE V JE bds for the control withstand voltage ategory and structure	device	10 to 2 9/EU LVD 2 115 HZ), n None 2,5 KV II A Incorp ≤ 60 ± > 24 ±	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu /month at 25 °C (77 °C	C) Regulatic 5), 50/60 Hz (± im battery F)	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock Clock Clock power	on statu: rmity 2011/65 014/30/ supply ng metho impulse- voltage c are class drift battery supply	S of the control dev /CE V JE Dds for the control withstand voltage ategory and structure autonomy in the a	device	10 to 2 9/EU LVD 2 115 HZ), n None 2,5 K ¹ II A Incorp ≤ 60 ± > 24 ± 24 ±	00% REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu /month at 25 °C (77 °F)	C) Regulatic 5), 50/60 Hz (± im battery F)	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock Clock Clock Clock Clock	on statu: rmity 2011/65 014/30/ supply ng metho impulse- voltage c are class drift battery supply	S of the control dev /CE V JE bds for the control withstand voltage ategory and structure autonomy in the a harging time	device	10 to 2 9/EU LVD 2 115 HZ), n None 2,5 KV II A Incorp ≤ 60 : > 24 Supply	REACH (E 1907/2006 1907/2006 114/35/UE 230 VAC (+10% -15% 230 VAC (+10% -15% ax. 3.2 VA insulated orrated secondary lithiu //month at 25 °C (77 °F) (the battery is charged) (F7 °F)	C) Regulation 6), 50/60 Hz (± im battery F) ed by the powe	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over Softwa Clock Clock Clock Clock Clock Analog	on statu: rmity 2011/65 014/30// supply ng methi impulse- voltage c are class drift battery supply battery c gue input	S of the control dev /CE V JE bds for the control withstand voltage ategory and structure autonomy in the a harging time	device	10 to 2 9/EU LVD 2 115 H2), n None 2,5 KV III A Incorp ≤ 60 ± > 24 I supply 2 to r variable 2 to r variable 2 to r variable	REACH (E 1907/2006 014/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu /month at 25 °C (77 °I at 25 °C (77 °F) (the battery is charge of the device) PTC or NTC probes (ca ator probe)	C) Regulation 6), 50/60 Hz (± 1000 mm battery F) ed by the power abinet probe an	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over-v Softwa Clock Clock Clock Clock Clock	on statu: rmity 2011/65 014/30// supply ng methi impulse- voltage c are class drift battery supply battery c gue input	S of the control dev /CE V JE bds for the control withstand voltage ategory and structure autonomy in the a harging time	device	10 to 2 9/EU LVD 2 115 H2), n None 2,5 KV III A Incorp ≤ 60 ± > 24 I supply 2 to r variable 2 to r variable 2 to r variable	REACH (E 1907/2006 1907/2006 014/35/UE 230 VAC (+10% -15% 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu //month at 25 °C (77 °F) (the battery is charge of the device) //month care of the device)	C) Regulation 6), 50/60 Hz (± 1000 mm battery F) ed by the power abinet probe an	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over Softwa Clock Clock Clock Clock Clock Analog	on statu: rmity 2011/65 014/30// supply ng methi impulse- voltage c are class drift battery supply battery c gue input	s of the control dev /CE V JE Dds for the control withstand voltage ategory and structure autonomy in the a harging time s Sensor type Measurement fiel	VEEE 2012/1	10 to 2 9/EU LVD 2 115 HZ), m None 2,5 K ¹ II A Incorp ≤ 60 : > 24 h supply 2 for evapo KTY 8 From	REACH (E 1907/2006 1907/2006 014/35/UE 230 VAC (+10% -15% 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu (month at 25 °C (77 °) at 25 °C (77 °F) (the battery is charge of the device) of the device) (the battery is charge of the device) -TC or NTC probes (car probe) -121 (990 Ω @ 25 °C, 50 to 150 °C (from -58	C) Regulation 6), 50/60 Hz (± 1) 1) 1) 1) 1) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2	
Polluti Confor RoHS EMC 2 Power Earthin Rated Over Softwa Clock Clock Clock Clock Clock Analog	on statu: rmity 2011/65 014/30// supply ng methi impulse- voltage c are class drift battery supply battery c gue input	s of the control dev /CE V UE ods for the control withstand voltage ategory and structure autonomy in the a harging time s Sensor type	VEEE 2012/1	10 to 2 9/EU LVD 2 115 HZ), m None 2,5 K ¹ II A Incorp ≤ 60 : > 24 h supply 2 for evapo KTY 8 From	REACH (E 1907/2006 1907/2006 014/35/UE 230 VAC (+10% -15% 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu	C) Regulation 6), 50/60 Hz (± 1) 1) 1) 1) 1) 2) 2) 2) 2) 2) 2) 2) 2) 2) 2	
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Polluti Confor RoHS EMC 2 Power Earthin Rated Over Softwa Clock Clock Clock Clock Analog PTC pr	on status rmity 2011/65 014/30// supply ng metho impulse- voltage c are class drift battery supply battery c gue input	s of the control dev /CE V JE ods for the control withstand voltage ategory and structure autonomy in the a harging time s Sensor type Measurement fiel Resolution	VEEE 2012/1	10 to 2 9/EU LVD 2 115 HZ), n None 2,5 KV II A Incorp i > 24 l Supply 2 tor evapo KTY 8 From 0.1 °C B3435 From	REACH (E 1907/2006 1907/2006 014/35/UE 230 VAC (+10% -15% 230 VAC (+10% -15% ax. 3.2 VA insulated orrated secondary lithiu //month at 25 °C (77 °F) (the battery is charge of the device) PTC or NTC probes (carator probe) -121 (990 Ω @ 25 °C, 77 50 to 150 °C (from -56 (1 °F)) (10 K □ Ω @ 25 °C, 77 40 to 105 °C (from -400)	C) Regulations 5), 50/60 Hz (± 5), 50/	
Polluti Confor RoHS EMC 2 Power Earthii Rated Over-v Softww Clock Clock Clock Clock Clock Analog PTC pr	on statu: rmity 2011/65 014/30/1 supply ng metho impulse- voltage c are class drift supply battery c gue input robes	s of the control dev /CE V JE ods for the control withstand voltage ategory and structure autonomy in the a harging time s Sensor type Measurement fiel Resolution Sensor type	VEEE 2012/1	10 to 2 JP/EU LVD 2 115 H2), n None 2,5 KN III A Incorg ≤ 60 ± > 24 h supply 2 for evapo KTY 8 From 0.1 °C 63435	REACH (E 1907/2006 14/35/UE 230 VAC (+10% -15% ax. 3.2 VA insulated orated secondary lithiu /month at 25 °C (77 °I) at 25 °C (77 °F) (the battery is charge of the device) PTC or NTC probes (catator probe) -121 (990 Ω @ 25 °C, 77 40 to 105 °C (from -40 (1 °F))	C) Regulation	
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<u> </u>	N.B.
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The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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