EV3273/EV3283

Controllers for refrigerated units, with compressor protection against mains voltage fluctuations



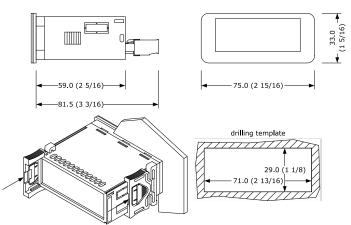




- Controllers for low temperature units
- Power supply 115... 230 VAC
- Cabinet probe and auxiliary probe (PTC/NTC/Pt 1000)
- Door switch/multi-purpose input
- Compressor relay rated 16 res. A @ 250 VAC (EV3273) or 30 res. A @ 250 VAC (EV3283)
- $Compressor\ protection\ against\ mains\ voltage\ fluctuations$
- Alarm buzzer
- TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for
- Cooling or heating operation

1 MEASUREMENTS AND INSTALLATION

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



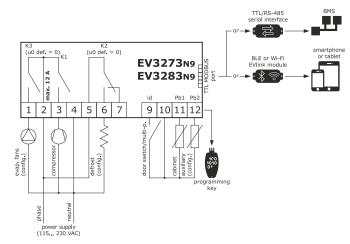
INSTALLATION PRECAUTIONS

- 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 TECHNICAL 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
- 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

2 ELECTRICAL CONNECTION



Use cables of an adequate section for the current running through them To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables



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 power $\label{eq:make_sure_that} \mbox{Make sure that the supply voltage, electrical frequency and power are within the set}$ 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 $% \left(1\right) =\left(1\right) \left(1\right) \left($
- FIRST-TIME Install following the instructions given in the section MEASUREMENTS AND INSTALLA-TION.
- 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.

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

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-
- For the connection in an RS-485 network, connect the EVIF22TSX or EVIF23TSX interface. To activate real time functions, connect the EVIF23TSX module. To use the device with the app EVconnect, connect the EVIF25TBX interface. To use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module. **If the EVIF22TSX**

or EVIF23TSX interface is used, set parameter bLE to 0.

4 USER INTERFACE AND MAIN FUNCTIONS temperature unit saving service of measurement **(D)** * ۰F defrost · cabinet @ AUX light on/stand-by FNC \bigvee △₩ **≙** SET

Switching the device on/off

SET,

keypad lock

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

ON/STAND-BY,

escape, cabinet

light

If the device is switched on, the display will show the P5 value ("cabinet temperature" default); if the display shows an alarm code, see the section ALARMS.

DOWN,

additional

functions

defrost

LED	ON	OFF	FLASHING
*	compressor on	compressor off	- compressor protection active - setpoint setting active
*	defrost or pre-dripping active	-	- defrost delay active - dripping active
@	evaporator fan on	evaporator fan off	evaporator fan stop active
НАССР	saved HACCP alarm in EVlink	-	-
②	energy saving active	-	-
2	request for compressor service	-	settings active access to additional functions active operation with EVconnect APP active
°C/°F	view temperature	-	overcooling or overheating active
AUX	cabinet light on	cabinet light off	cabinet light on by digital input
(1)	device off	device on	device on/off active

If 30 s have elapsed without the keys being pressed, the display will show the " \mathbf{Loc} " label and the keypad will lock automatically.

4.2 Unlock keypad

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

Set the setpoint

Check that the keypad is not locked.

1.		Touch the SET key.
2.		Touch the UP or DOWN key within 15 s to set the value within the limits r1 and r2 (default "-50 50")
3.	≙ SET	Touch the SET key (or do not operate for 15 s).

If P4 = 1 (default), defrost is activated provided that the evaporator temperature is lower than

Activate manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active. △₩ Touch the UP key for 2 s.

the d2 threshold.

4.5 Cabinet light on/off (if u0 = 1, 2 or 3) Touch the ON/STAND-BY key.

4.6 Silence buzzer

Touch a key.

FNC

-	ADDITIONAL FUNCTIONS
5.1	Activate/deactivate overcooling, overheating and manual energy saving

Check that the keypad is not locked

Touch the DOWN key

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0, $r8 = 1$ and defrost	the setpoint becomes "setpoint -
	not active	r6", for the r7 duration
overheating	r5 and r8 = 1	the setpoint becomes "setpoint +
		r6", for the r7 duration
energy saving	r5 = 0 and r8 = 2	the setpoint becomes "setpoint +

View/delete compressor functioning hours and view compressor start-up number

r4", at maximum for HE2 duration

Check that the keypad is not locked

			-V	Touch the DOWN key for 4 s.
				Touch the UP or DOWN key within 15 s to select a label.
١		LAB.	DESCRIPTION	ON
		СН	view compr	essor functioning hours (hundreds)
		rCH	delete comp	pressor functioning hours
nS1 compressor start-up number (thousand		compressor	start-up number (thousands)	
	3.	25	6 ∈⊤	Touch the SET key.
.	4.	√ FN		Touch the UP or DOWN key to set " 149 " (when label " \mathbf{rCH} " is selected).
.	5.	25	6 ΕΤ	Touch the SET key.
	6.		(h)	Touch the ON/STAND-BY key (or do not operate for $60~\text{s}$) to exit the procedure.

		5.3 View the temperature detected by the probes Check that the keypad is not locked.			
	1. FNC \/			Touch the DOWN key for 4 s.	
	2. FNL			Touch the UP or DOWN key within 15 s to select a label.	
LAB. DES		DESCRIPTION	RIPTION		
9		Pb1	cabinet tem	perature	
•		Pb2	auxiliary ter	mperature	
	4 (9(1)		6 ∈⊤	Touch the SET key.	
			(h)	Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. $ \label{eq:bound} % \begin{array}{l} \text{Touch the ON/STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the only STAND-BY key} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} & \text{or do not operate for 60 s} \\ \text{Touch the operate for 60 s} \\ Touch the op$	

5.4 View the project number and the firmware revision

Check that the keypad is not locked.

1. FNC \/		-V	Touch the DOWN key for 4 s.
2. FNL			Touch the UP or DOWN key within 15 s to select a label.
	LAB.	DESCRIPTION	ON
	PrJ	view the pro	oject number
	rEU	view the fire	mware revison
3.	1 ==	ET	Touch the SET key.
4.	₩	(h)	Touch the ON/STAND-BY key (or do not operate for $60\ s$) to exit the procedure.

5.4 View the mains voltage

Assicurarsi che la tastiera non sia bloccata.

1.	FNC \/	Touch the DOWN key for 4 s.
2.	₹ FNL V	Touch the UP or DOWN key within 15 s to select " UOL ".
3.	≟SET	Touch the SET key.
4.		Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure.

	= 0	the procedure.
6	SETTINGS	
6.1	Setting configurat	ion parameters
1.	≙ SET	Touch the SET key for 4 s: the display will show the label "PA".
2.	≙SET	Touch the SET key.
3.	√ FNL V	Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").
4.	⊇SET	Touch the SET key (or do not operate for 15 s): the display will show the label "SP".
5.	√ FNC V	Touch the UP or DOWN key to select a parameter.
6.	≙SET	Touch the SET key.
7.	√ FNE V	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.
6.2	Set the date, time	and day of the week (available if EVIF23TSX, EVIF25TBX o

EVIF25TWX module is connected)

N.B.

Do not disconnect the device from the mains within two minutes since the setting of the time and day of the week

if the device communicates with the EVconnect app, the date, time and day of the week will be automatically set by the smartphone or tablet

Check that the keypad is not locked

Check that the keypad is not locked.			it locked.
1.	FNC V		Touch the DOWN key for 4 s.
2.	2. FNL		Touch the UP or DOWN key within 15 s to select the label "rtc".
3.		ET	Touch the SET key: the display will show the label "yy" followed by the last two figures of the year.
4.	√ FN		Touch the UP or DOWN key within 15 s to set the year.
5.			and 4. to set the next labels.
	LAB.	DESCRIPTION	ON OF THE NUMBERS FOLLOWING THE LABEL
	n	month (01	12)
	d	day (01 3	1)
	h	time (00 2	23)
	n	minute (00.	59)
6.	1 ==	ετ	Touch the SET key: the display will show the label for the day of the week.
7.	√ FN		Touch the UP or DOWN key within 15 s to set the day of the week.
	LAB.	DESCRIPTION	ON
	Mon	Monday	
	tuE	Tuesday	
	UEd	Wednesday	
	thu	Thursday	
	Fri	Friday	
	Sat	Saturday	
	Sun	Sunday	
8.	==	SET	Touch the SET key: the device will exit the procedure.
9.	<u></u>	(h)	Touch the ON/STAND-BY key to exit the procedure beforehand.

6.3 Restore the factory settings (default) and store customized settings as default

	N.B.			
Ö.	- Che	- Check that the factory settings are appropriate; see the section CONFIGURATION		
, ∵¤	PAR	AMETERS		
	- the	storing of cu	stomized settings overwrites the default	
1.	1. SET		Touch the SET key for 4 s: the display will show the label " PA ".	
2.	aset		Touch the SET key.	
3.	√ FN		Touch the UP or DOWN key within 15 s to set the value.	
	VAL.	DESCRIPTION	DN	
	149	value to res	store the factory settings (default)	
	161 value to sto		re customized settings as default	
	l_	_	Touch the SET key (or do not operate for 15 s): the display will	
4.	4. ≙SET		show the label "dEF" (when value "149" is set) or the label	

	149	value to res	value to restore the factory settings (default)					
	161	value to sto	value to store customized settings as default					
4.	aset		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).					
5.	☐ ☐ SET ☐ Touch the SET key.							
6.	₹ NL V		Touch the UP or DOWN key within 15 s to set "4".					
7.	==	e⊤	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 proce-					

dure. Interrupt the power supply to the device. Touch the SET key 2 s before action 6. to exit the procedure be-

II ≙SET

\-				PARAMETERS	MINI	
][0.0	SETPOINT setpoint	MIN MAX.	
_	N.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.	
	3	CA1	0.0	cabinet probe offset auxiliary probe offset	-25 25 °C/°F -25 25 °C/°F	
	4	P0	1	probe type	0 = PTC 1 = NTC	
	5	P1	1	enable °C decimal point	2 = Pt 1000 0 = no 1 = yes	
	6	P2	0	temperature unit of measure-	0 = °C 1 = °F	
).	7	P4	1	ment auxiliary probe function	0 = disabled	
	′	[4	•	auxiliary probe function	1 = evaporator probe (de-	
					frost + fan)	
					2 = evaporator probe (fan) 3 = condenser probe	
	8	P5	0	value displayed	0 = cabinet temperature 1 = setpoint	
					2 = auxiliary temperature	
	9 N.	P8	5	display refresh time	0 250 s : 10	
	10	PAR.	DEF. 2.0	REGULATION setpoint differential	MIN MAX. 1 15 °C/°F	
	11	r1	-50	minimum setpoint	-99 °C/°F r2	
	12	r2 r4	0.0	maximum setpoint setpoint offset in energy saving	r1 199 °C/°F 0 99 °C/°F	
	14	r5	0	cooling or heating operation	0 = cooling	
4	15	r6	0.0	setpoint offset in overcool-	1 = heating 0 99 °C/°F	
				ing/overheating		
	16 17	r7 r8	30 0	overcooling/overheating duration DOWN key additional function	0 240 min 0 = disabled	
				,	1 = overcooling/overheating	
	18	r12	0	position of the r0 differential	2 = energy saving 0 = asymmetric	
					1 = symmetric	
	N. 19	PAR.	DEF.	COMPRESSOR compressor on delay after pow-	MIN MAX. 0 240 min	
				er-on		
	20	C2	3	compressor off minimum time	0 240 min 0 = protection against mains	
					voltage fluctuations dis-	
	21	L2	_	compressor on minimum time	abled	
	22	C3 C4	10	compressor on minimum time compressor off time during cabi-	0 240 s 0 240 min	
				net probe alarm		
	23	C5	10	compressor on time during cabi- net probe alarm	0 240 min	
	24	C6	80.0	threshold for high condensation	0 199 °C/°F	
	25	C7	90.0	warning threshold for high condensation	differential = 2 °C/4 °F 0 199 °C/°F	
				alarm		
	26 27	C8	0	high condensation alarm delay compressor hours for service	0 15 min 0 999 h x 100	
				Compressor flours for service	0 = disabled	
	28	C14	190	mains voltage threshold below which the compressor is not		
0				switched on	on every 30 s	
	29	C15	180	mains voltage threshold below which the compressor is switched	95 260 V if satisfied C17 time	
				off	in Sucisited C17 time	
	30	C16	260	mains voltage threshold above which the compressor is not		
				switched on or switched off	the device attempts to switch	
	21	C17	-	concecutive time the mains valt	on every 30 s	
	31	C17	5	consecutive time the mains voltage lies outside the threshold	0 60 s	
				C15 and C16 to force the com-		
				pressor switch-off		
	32	C18	5	consecutive number of failed	0 00	
				compressor starts due to the mains voltage outside the	0 = protection against mains voltage fluctuations dis-	
				thresholds C14 and C16 such as	abled	
				to cause the forced start-up of the compressor	oo= the device never makes the forced start-up of	
					the compressor the interruption of the power	
					supply resets the count	
	N. 33	PAR.	DEF.	DEFROST (if r5 = 0)	MIN MAX.	
	33	d0	8	automatic defrost interval	0 99 h 0 = only manual	
	_		 -	defined to	if d8 = 3, maximum interval	
	34	d1	0	defrost type	0 = electric 1 = hot gas	
	_		-	though the state of	2 = compressor stopped	
	35 36	d2 d3	8.0 30	threshold for defrost end defrost duration	-99 99 °C/°F 0 99 min	
					se P4 = 1, maximum duration	
	37 38	d4 d5	0	enable defrost at power-on defrost dealy after power-on	0 = no 1 = yes 0 99 min	
	39	d6	2	value displayed during defrost	0 = cabinet 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-	-99 99 °C/°F	
•	43	d11	0	matic defrost interval counting enable defrost timeout alarm	0 = no 1 = yes	
	44	d15	0	compressor on consecutive time	0 99 min	
	45	d16	0	for hot gas defrost pre-dripping time for hot gas de-	0 99 min	
		410		frost	22 11111	
	46	d18	40	adaptive defrost interval	0 999 min	
					if compressor on + evapora- tor temperature < d22	
		24.5		throchold for a death	0 = only manual	
	47	d19	3.0	threshold for adaptive defrost (relative to optimal evaporation	0 40 °C/°F optimal evaporation tempera-	
	<u> </u>			temperature)	ture - d19	
	48	d20	180	compressor on consecutive time for defrost	0 999 min 0 = disabled	
	<u> </u>	d21	200	compressor on consecutive time	0 500 min	
	49			for defrost after power-on and	if (cabinet temperature - set-	
	49	ı	L	overcooling	point) > 10°C/20 °F 0 = disabled	
	49			evaporation threshold for adap-	-10 10 °C/°F	
	50	d22	-2.0	tivo deferre	ontimal area	
		d22	-2.0	tive defrost interval counting (relative to optimal evaporation	optimal evaporation tempera- ture + d22	
	50			(relative to optimal evaporation temperature)	ture + d22	
		d22 PAR.	-2.0 DEF.	(relative to optimal evaporation temperature) ALARMS	ture + d22 MIN MAX.	
_	50 N.	PAR.	DEF.	(relative to optimal evaporation temperature)		

1					
	53	A2	1	low temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute
	54	A4	10.0	threshold for high temperature	
	55	A5	1	alarm high temperature alarm type	0 = disabled 1 = relative to setpoint
	56	A6	12	high temperature alarm delay af-	2 = absolute 0 99 min x 10
	57	A7	15	ter power-on high/low temperature alarms de-	0 240 min
	58	A8	15	high temperature alarm delay after defrost	0 240 min
	59	A9	15	high temperature alarm delay after door closing	0 240 min
	60	A10	10	power failure duration for alarm recording	0 240 min
	61	A11	2.0	high/low temperature alarms re- set differential	1 15 °C/°F
	62 63	A13 F0	3	enable alarm buzzer evaporator fan mode during normal operation	0 = no 1 = yes 0 = off 1 = on 2 = according to F15 and F16 if compressor off, on
					if compressor on 3 = thermoregulated (with F1)
	64	F1	-1.0	threshold for evaporator fan op-	4 = thermoregulated (with F1) if compressor on -99 99 °C/°F
	65	F2	0	eration evaporator fan mode during de-	differential = 2 °C/4 °F 0 = off 1 = on
	66	F3	2	frost and dripping evaporator fan off maximum	2 = according to F0 0 15 min
	67	F4	0	time evaporator fan off time during	0 240 s x 10
	68	F5	10	energy saving evaporator fan on time during	0 240 s x 10
	69	F7	5.0	energy saving threshold for evaporator fan on after dripping (relative to set-	-99 99 °C/°F setpoint + F7
	70	F9	0	point) evaporator fan off delay after	0 240 s
ļ	71	F15	0	compressor off evaporator fan off time with	if F0 = 2 0 240 s
	72	F16	1	compressor off evaporator fan on time with compressor off	if F0 = 2 0 240 s if F0 = 2
	N. 73	PAR.	DEF.	DIGITAL INPUTS door switch/multi-purpose input	MIN MAX.
	/3	10	•	function	1 = compressor + evapora- tor fan off
					2 = evaporator fan off 3 = cabinet light on
					4 = compressor + evapora- tor fan off, cabinet light
					on 5 = evaporator fan off, cabi-
					net light on 6 = reserved
					7 = energy saving 8 = iA alarm
					9 = device on/off 10= Cth alarm
€	74	i1	0	door switch/multi-purpose input	
	75	i2	30	open door alarm delay	1 = with contact open -1 120 min -1 = disabled
	76	i3	15	regulation inhibition maximum time with door open	-1 120 min -1 = until the closing
	77	i7	0	multi-purpose input alarm delay	-1 120 min -1 = disabled
					if i0 = 10 or 11, compressor
	78	i10	0	door closed consecutive time for	on delay after alarm reset 0 999 min
	78	i10	0	door closed consecutive time for energy saving	0 999 min after regulation temperature < SP
	78	i10	180	energy saving number of door openings for de-	0 999 min after regulation temperature < SP 0 = disabled 0 240
				number of door openings for de- frost door open consecutive time for	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min
	79	i13	180	number of door openings for de- frost door open consecutive time for defrost DIGITAL OUTPUTS	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX.
	79 80 N.	i13 i14 PAR.	180 32 DEF.	number of door openings for de- frost door open consecutive time for defrost	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled
×	79 80 N.	i13 i14 PAR.	180 32 DEF.	number of door openings for de- frost door open consecutive time for defrost DIGITAL OUTPUTS	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light
×	79 80 N.	i13 i14 PAR.	180 32 DEF.	number of door openings for de- frost door open consecutive time for defrost DIGITAL OUTPUTS	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost
*	79 80 N.	i13 i14 PAR.	180 32 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light C3 exporator fan 1 = K2 cabinet light C4 cabinet light C5 cabinet light C6 cabinet light C7 cabinet light C8 cabinet light C9 cabinet light C
*	79 80 N. 81	i13 i14 PAR. u0	180 32 DEF. 0	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0)	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 cabinet light N3 cabinet light O = no D = yes manual MIN MAX.
*	79 80 N. 81	i13 i14 PAR. u0	180 32 DEF. 0	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light C3 cabinet light C4 cabinet light C5 cabinet light C6 cabinet light C7 cabinet light C8 cabinet light C9 ca
*	79 80 N. 81 82 N. 83 N.	i13 i14 PAR. u0 u2 PAR. HE2 PAR. H01	180 32 DEF. 0 0 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light 0 = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h
*	79 80 N. 81 82 N. 83 N.	i13 i14 PAR. u0 u2 PAR. HEZ PAR.	180 32 DEF. 0 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0)	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 cabinet light N3 cabinet light U = N0
	79 80 N. 81 82 N. 83 N.	i13 i14 PAR. u0 u2 PAR. HE2 PAR. H01 H01	180 32 DEF. 0 DEF. 0 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light O = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday
*	79 80 N. 81 82 N. 83 N.	i13 i14 PAR. u0 u2 PAR. HE2 PAR. H01 H01	180 32 DEF. 0 DEF. 0 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 cabinet light MIN MAX. 0 = no
X	79 80 N. 81 82 N. 83 N. 84 85 86	i13 i14 PAR. u0 u2 PAR. H01 H02 HEd	180 32 DEF. 0 0 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light MIN MAX. 0 = no
	79 80 N. 81 82 N. 83 N. 84 85 86	i13 i14 PAR. u0 u2 PAR. HE2 PAR. HO1 H02 HEd Hd1 Hd2 Hd3 Hd4	180 32 DEF. 0 DEF. 0 DEF. 1 DEF. 1	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 cabinet light MIN MAX. 0 = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 87 90 91	i13 i14 PAR. u0 u2 PAR. HE2 PAR. H01 H02 HEd Hd1 Hd2 Hd3 Hd4 Hd5 Hd6	180 32 DEF. 0 0 DEF. 0 0 DEF. h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duration energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 5th daily defrost time 6th daily defrost time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light N3 defrost 3 = K2 defrost MIN MAX. 0 = no
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 87 88 89 91 92 N. 93	113 114 PAR. U0 U2 PAR. H01 H02 HEd Hd1 Hd2 Hd3 Hd4 Hd4 Hd5 Hd6 PAR. POF	180 32 DEF. 0 DEF. 0 DEF. h- h- h- h- h- h- DEF. 0 0	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving duration energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time SAFETIES enable ON/STAND-BY key	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 defrost 0 = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled MIN MAX. 0 = no 1 = yes
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 87 88 89 90 91 92 N. 93 94 95	113 114 PAR. U0 U2 PAR. HE2 PAR. H01 H402 H4d3 H4d4 H4d5 Hd6 Hd6 PAR. POF PAS PA1	180 32 DEF. 0 0 DEF. 0 0 DEF. 1 0 0 -19 426	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button-operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time 5afETIES enable ON/STAND-BY key password level 1 password	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light O = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled M-= disabled
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 87 88 89 90 91 92 N. 93 94 95 96 N.	113 114 PAR. 100 12 PAR. HE2 PAR. H01 H02 H64 H65 H66 PAR. H05 H66 PAR. POF PAS PA1 PA2 PAR.	180 32 DEF. 0 0 DEF. 0 0 DEF. 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light MIN MAX. 0 999 min MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled MIN MAX. 0 = no 1 = yes -99 999 -99 999 -99 999
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 87 88 89 90 91 92 N. 93 94 95 96	113 114 PAR. U0 U2 PAR. HE2 PAR. H01 H02 HEd Hd3 Hd4 Hd5 Hd6 PAR. PAR. PAR. PAR. POF PAS PA1 PA2	180 32 DEF. 0 0 DEF. 0 DEF. 1 0 0 DEF. 1 0 0 1 0 0 1 0 0 0 0 7	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duration energy saving day REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time SAFETIES enable ON/STAND-BY key password level 1 password level 2 password	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 cabinet light K3 cabinet light K3 cabinet light 0 = no
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 91 92 N. 93 94 95 96 N. 97	113	180 32 DEF. 0 0 DEF. 0 0 DEF. h- h- h- h- h- h- 19 426 824 DEF. 0	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving time 2nd daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time 5AFETIES enable ON/STAND-BY key password level 1 password level 2 password REAL TIME CLOCK enable clock	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light K3 cabinet light 0 = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled MIN MAX. 0 = no 1 = yes -99 999 -99 999 -99 999 -99 999 MIN MAX. 0 = no 1 = yes
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 97 N. 93	113	180 32 DEF. 0 0 DEF. 0 0 DEF. h-h-h-h-h- h- 19 426 824 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duratio	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light O = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled MIN MAX. 0 = no 1 = yes -99 999 -99 999 -99 999 MIN MAX. 0 = no 1 = yes
	79 80 N. 81 82 N. 83 N. 84 85 86 N. 97 N. 93	113	180 32 DEF. 0 0 DEF. 0 0 DEF. h-h-h-h-h- h- 19 426 824 DEF. 0 DEF.	energy saving number of door openings for defrost door open consecutive time for defrost DIGITAL OUTPUTS K2 and K3 output configuration enable cabinet light and button- operated load in stand-by ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving duration energy saving duratio	0 999 min after regulation temperature < SP 0 = disabled 0 240 0 = disabled 0 240 min 0 = disabled MIN MAX. 0 = K2 defrost K3 evaporator fan 1 = K2 cabinet light K3 evaporator fan 2 = K2 cabinet light K3 defrost 3 = K2 defrost K3 cabinet light 0 = no 1 = yes manual MIN MAX. 0 999 min MIN MAX. 0 23 h 0 24 h 0 = Monday 1 = Tuesday 2 = Wednesday 3 = Thursday 4 = Friday 5 = Saturday 6 = Sunday 7 = none MIN MAX. h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled h-= disabled MIN MAX. 0 = no 1 = yes -99 999 -99 999 -99 999 MIN MAX. 0 = no 1 = yes

102	Lb	2	MODBUS baud rate	0 = 2,400 baud
				1 = 4,800 baud
				2 = 9,600 baud
				3 = 19,200 baud
				parity even

					parity even			
8	ALARMS							
_								
COD.	DESCRIPTION		RESET		REMEDI	REMEDIES		
Pr1	cabinet probe alarm		automatic		- check P0			
Pr2	auxiliary probe alarm		automatic		check probe integritycheck electrical connection			
rtc	clock alarm		manual		set date, time and day of the week			
COn	1		manual			- touch a key		
	alarm				- check	C18		
LU	compressor alarm not o		manual,		,			
	off due to low mains volt	- 1		after	- check C14 and C15			
HU	compressor alarm not o	_	30 s manual,	au-	- touch a key			
	off due to high mains		tomatic		1			
	age	30 s		1				
AL	low temperature alarm		automati	tic check AA, A1 and A2				
AH	high temperature alarm		automat	ic		A, A4 and A5		
id	open door alarm		automat	ic	check i			
PF	power failure alarm		manual			touch a keycheck electrical connection		
СОН	high condensation warni	na	automat	ic	check C			
CSd	high condensation alarm		manual			h the device off and on		
					- check C7			
iA	multi-purpose input alar	m	automat	ic	check i(and i1		
Cth	compressor thermal sw	vitch	automat	ic	check i0	check i0 and i1		
	alarm							
th	global thermal switch ala	arm	manual		- switch the device off and on - check i0 and i1			
dFd	defrost timeout alarm	-	manual		- touch a key			
ui u	derrost timeout diariii		manuai	- check d2, d3 and d11				
					•			
9	TECHNICAL SPECIFICA	TION	S					
D				l		alla		
	se of the control device ruction of the control device				on contro	nic device		
Contai						nguishing		
	ory of heat and fire resista	ance		D				
	rements							
75.0 x	33.0 x 59.0 mm (2 15/1	16 x 1	5/16 x	75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x				
2 5/16	in) with fixed screw term	ninal bl	locks	3 3/16 in) with removable screw terminal				
Ma	ing making da Continue .	الماما		blocks				
Mount	ing methods for the contro	ol devi	ice	To be fitted to a panel, snap-in brackets provided				
Degree	e of protection provided	by the	cover-	IP65 (front)				
ing	2 1. proceedan provided	_,		55 (
	ction method							
Fixed screw terminal blocks Remo			vable so	crew	terminal	Micro-MaTch connector		
for wires up to 2,5 mm ² bloc					up to			
M			m²; by re					
	supply: 10 m (32.8 ft)	onnec	tion cabl		nua innut	s: 10 m (32 8 ft)		
	supply: 10 m (32.8 ft) inputs: 10 m (32.8 ft)		Analogue inputs: 10 m (32.8 ft) Digital outputs: 10 m (32.8 ft)					
Operating temperature					From 0 to 55 °C (from 32 to 131 °F)			
	ge temperature			From -25 to 70 °C (from -13 to 158 °F)				
Operating humidity					Relative humidity without condensate from			
				10 to 90%				
	on status of the control de	evice		2				
Confor	· · · · · · · · · · · · · · · · · · ·	\\/E==	2012/1-	/E11		DEACH (EC) 5 ()		
KoHS	2011/65/CE	WEEE	2012/19	/EU		REACH (EC) Regulation		
EMC 2	014/30/UE			1907/2006 LVD 2014/35/UE				
	supply			115 230 VAC (+10 % -15%), 50/60 Hz				
				(+3 Hz) max 4 VA (FV3273) or 4 9 VA				

EMC 2014/30/	UE		LVD 2014/35/UE		
Power supply			115 230 VAC (+10 % -15%), 50/60 Hz		
			(±3 Hz), max. 4 VA (EV3273) or 4.9 VA		
			(EV3283) insulated		
Earthing meth	ods for the contr	ol device	None		
Rated impulse	-withstand volta	ge	2.5 KV		
Over-voltage of	ategory		II		
Software class	and structure		A		
Analogue inpu	ts		2 for PTC, NT	C or Pt 1000 probes (cabinet	
			probe and auxi	liary probe)	
PTC probes	Sensor type		KTY 81-121 (99	90 Ω @ 25 °C, 77 °F)	
	Measurement t	field	From -50 to 150 °C (from -58 to 302 °F)		
	Resolution		0.1 °C (1 °F)		
NTC probes	Sensor type		β3435 (10 KΩ @ 25 °C, 77 °F)		
	Measurement field		From -40 to 105 °C (from -40 to 221 °F)		
	Resolution		0.1 °C (1 °F)		
Pt 1000	Measurement i	field	From -99 to 199 °C (from -146 to 390 °F)		
probes	Resolution		0.1 °C (1 °F)		
Digital inputs			1 dry contact (door switch/multi-purpose)		
Dry contact		Contact type	5 VDC, 1.5 mA		
		Power supply	None		
		Protection	None		
Digital outputs		3 electro-mech	nanical relays		
Relay K1			SPST, 16 A res. @ 250 VAC (EV3273)		
			SPST, 30 A res. @ 250 VAC (EV3283)		
Relay K2			SPDT, 8 A res. @ 250 VAC		
Relay K3			SPST, 5 A res. @ 250 VAC		
Type 1 or Type	e 2 Actions		Type 1		
Additional features of Type 1 or Type 2 ac-			С		
tions					
Displays			3 digits custom display, with function icons		
Alarm buzzer			Incorporated		
Communication ports			1 TTL MODBUS	slave port for EVconnect app,	
			EPoCA remote monitoring system or for BMS		

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N.B.

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

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