### Controllers for refrigerated cabinets, counters and islands, with energy-saving strategies and compatible with the EV connect APP





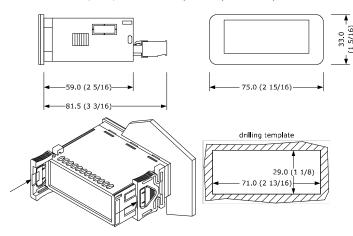


# Controllers for normal and low temperature units

- Power supply 230 VAC or 12-24 VAC/DC (according to the model)
- Cabinet probe and evaporator probe (PTC/NTC).
- Door switch/multi-purpose input.
- Compressor relay 16 A res. @ 250 VAC.
- TTL MODBUS slave port for EVconnect app, EPoCA remote monitoring system or for BMS.
- Cooling or heating operation.

#### 1 MEASUREMENTS AND INSTALLATION

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



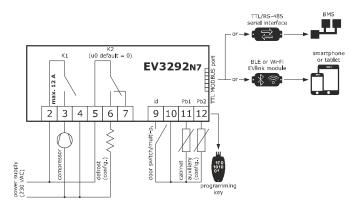
#### INSTALLATION PRECAUTIONS

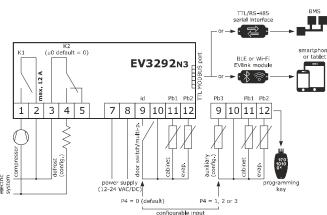
- The thickness of the panel must be between 0.8 and 2.0 mm (1/32 and 1/16 in) Ensure that the working conditions are within the limits stated in the TECHNICAL
- SPECIFICATIONS section.
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct 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

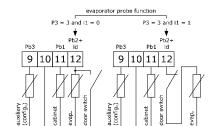


Use cables of an adequate section for the current running through them. To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables.





Options for electrical connection of EV3292N3 with cabinet probe, evaporator probe + door switch input and auxiliary probe; during the door opening the evaporator probe alarm is disa-



### 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 Check that the keypad is not locked. 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.

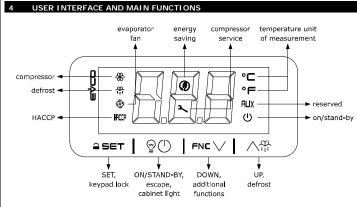
# Install following the instructions given in the section MEASUREMENTS AND INSTALLA

- Power up the device as shown in the section ELECTRICAL CONNECTION and an internal
- The test normally takes a few seconds, when it is finished the display will switch off. Configure the device as shown in the section  ${\it Setting\ configuration\ parameters}.$ Recommended configuration parameters for first-time use

PAR.	DEF.	PARAMETER	MIN MAX.
SP	0.0	setpoint	r1 r2
P0	1	probe type	0 = PTC 1 = NTC
P2	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 interface EVIF22TSX or EVIF23TSX, to activate real time functions connect the module EVIF23TSX, to use the device with the EPoCA remote monitoring system, connect the EVIF25TWX module, to use the device with the APP EVconnect connect the interface EVIF25TBX; see the relevant instruction sheets. If EVIF22TSX or EVIF23TSX is used, set parameter bLE
  - Power up the device.



#### Switching the device on/off

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

If the device is switched on, the display will show the P5 value ("cabinet temperature" default);

if the dis	the display shows an alarm code, see the section ALARMS.					
LED	ON	OFF	FLASHING			
*	compressor on	compressor off	- compressor protection active - setpoint setting active			
	defrost or pre-dripping active evaporator fan on	- evaporator fan off	defrost delay active     dripping active     evaporator fan stop active			
(a)						
НАССР	saved HACCP alarm in EVlink	-	-			
<b>(</b>	energy saving active	-	-			
4	request for compressor service	-	settings active     access to additional functions     active     operation with EVconnect APP     active			
°C/°F	view temperature	-	overcooling or overheating active			
(1)	device off	device on	device on/off active			

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

### Unlock keypad

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

### 4.3 Set the setpoint

Check that the keypad is not locked

1.	aset	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).

### 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.

If P3 =  $\dot{1}$  (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

### Cabinet light on/off (if u0 = 3)

Touch the ON/STAND-BY key

#### 4.6 Silence buzzer Touch a key.

If u0 = 2 and u4 = 1, the alarm output switches off

# 5 ADDITIONAL FUNCTIONS

5.1 Activate/deactivate overcooling, overheating and manual energy saving Check that the keypad is not locked.

FNC 🗸 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 savi	ng	r5 = 0 and r8 = 2	the setpoint becomes "setpoint +
			r4", at maximum for HE2 duration

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

1.	FN	c 🗸	Touch the DOWN key for 4 s.	
2.	<b>√</b> FNE <b>√</b>		Touch the UP or DOWN key within 15 s to select a label.	
	LAB.	DESCRIPTION	ON	
	CH view compressor functioning hours (hundreds)		essor functioning hours (hundreds)	
	rCH	CH delete compressor functioning hours		
	nS1	compressor start-up number (thousands)		

3.	_ ⊇SET	Touch the SET key.
4.		Touch the UP or DOWN key to set "149" (when label "rCH" is selected).
5.	≙SET	Touch the SET key.
6.	<b> </b> ♀ౖ	Touch the ON/STAND-BY key (or do not operate for 60 s) to exit the procedure. $ \label{eq:balance} % \begin{subarray}{ll} \end{subarray} % \begin$

#### View the temperature detected by the probes

Check that the keypad is not locked. FNC 🗸

		LAB.   DESCRIPTION FOR EV3 N7		
٠		Pb1	temperatura	a della cella
Pb2 temperatura ausiliaria			temperatura	a ausiliaria
		LAB.	DESCRIPTION	DN FOR EV3 N3
		Pb1	cabinet tem	perature (if P4 = 0, 1 or 2)
		PDI	inlet air tem	nperature (if P4 = 3)
		Pb2	evaporator temperature (if P3 = 1 or 2)	
		— — <u> </u>		mperature (if P4 = 1, 2 or 3)
				product temperature (CPT; if P4 = 3)
	3.	1 29	∍ET	Touch the SET key.
	4.	I @	(h) I	Touch the ON/STAND-BY key (or do not operate for 60 s) to exit
	٦.		$\cup$	the procedure.

Touch the UP or DOWN key within 15 s to select a label.

Touch the DOWN key for 4 s.

### View the project number and the firmware revision

Check that the keypad is not locked.

	1 2		1
1.	FNC V		Touch the DOWN key for 4 s.
2.	₹ FNL V		Touch the UP or DOWN key within 15 s to select a label.
	LAB. DESCRIPTION		ON
			oject number
			mware revison
3.	==	5ET	Touch the SET key.
4.			Touch the ON/STAND-BY key (or do not operate for 60 s) to exit 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.	aset	Touch the SET key.
3.	₹ FNC Y	Touch the UP or DOWN key within 15 s to set the PAS value (default "-19").
4.	aset	Touch the SET key (or do not operate for 15 s): the display wi show the label "SP".
5.	₹ FNC V	Touch the UP or DOWN key to select a parameter.
6.	aset	Touch the SET key.
7.	₹ FNC Y	Touch the UP or DOWN key within 15 s to set the value.
8.	aset	Touch the SET key (or do not operate for 15 s).
9.	aset	Touch the SET key for 4 s (or do not operate for 60 s) to exit th procedure.
6.2	Set the date time	and day of the week (if module FVIF23TSY_FVIF25TWY

## interface EVIF25TBX is connected)

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.

			Touch the SET key; the display will show the label for the day of	
	n minute (00 59)			
	h	time (00 2	23)	
	d day (01 31)		1)	
	n	month (01	. 12)	
	LAB.	DESCRIPTION	ON OF THE NUMBERS FOLLOWING THE LABEL	
5.	Repea	actions 3. and 4. to set the next labels.		
4.	√FN		Touch the UP or DOWN key within 15 s to set the year.	
3.	1 = 9	<b>5</b> €⊤	Touch the SET key: the display will show the label "yy" followe by the last two figures of the year.	
2.	√FN		Touch the UP or DOWN key within 15 s to select the label "rtc".	
1.	FN	c 🗸	Touch the DOWN key for 4 s.	

	h time (00 23)			
	n	minute (00 59)		
6.	25	Touch the SET key: the display will show the label for the day the week.		
7.	€	<u></u>	Touch the UP or DOWN key within 15 s to set the day of the week.	
	LAB.	DESCRIPTION		
	Mon	Monday		
	tuE Tuesday			
	UEd	Wednesday		
	thu	Thursday		
Fri Friday				
	Sat Saturday			
	Sun	Sunday		
8.	<u> </u>	<b>5</b> ∈⊤	Touch the SET key: the device will exit the procedure.	

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

Touch the ON/STAND-BY key to exit the procedure beforehand.

Check that the factory settings are appropriate: see the section CONFIGURATION PARAMETERS. the storing of customized settings overwrites the default.

1.	4	∍∈⊤	Touch the SET key for 4 s: the display will show the label "PA".
2.	1 ≙SET		Touch the SET key.
3.			Touch the UP or DOWN key within 15 s to set the value.
	VAL.	DESCRIPTION	ON
	149	value to res	tore the factory settings (default)
	161 value to sto		re customized settings as default
			Touch the SET key (or do not operate for 15 s): the display will
4.	2 9	SET	show the label "dEF" (when value "149" is set) or the label
			"MAP" (when value "161" is set).

Touch the SET key.

ĺ		I Am	اللف	ction sheet ver. 2.0   Code 1043292E20	· · ·	46	d20	180	l '			92	H10	0		ergy saving	maximum	0 24 h	
7.	Touch the UP or DOWN key within 15 s to set "4".  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-		erate for 15 s): the display will	47	d21	200	for defrost  compressor on consecutive time for defrost after power-on and			-	H11	0		nergy saving		0 23 h			
	dure. Interrupt the power supply to the device.					overcooling	setpoint) > 10°C/20 °F  0 = disabled			H12	0	mum durati	Saturday energy saving maxi- mum duration Sunday energy saving time		0 24 h				
9.	1	SET	i I	Touch the SET key 2 s before action 6. to exit the procedure beforehand.		48	d22	-2.0	tive defrost interval counting	-10 10 °C/°F optimal evaporation tempera-		96	H14	O DEF.	Sunday energy saving maximum duration  REAL TIME DEFROST (if d8 = 4)		maximum		
				SETPOINT MIN MAY		N.	PAR.	DEF.	temperature) ALARMS	MIN MAX.	. ~	97 98	Hd1 Hd2	h- h-	1st daily det 2nd daily de	efrost time		h- = disabled h- = disabled	
	1	SP	0.0	SETPOINT setpoint ANALOGUE INPUTS	MIN MAX. r1 r2 MIN MAX.			0	select value for high/low temper- ature alarms	0 = cabinet temperature 1 = auxiliary temperature not available in EV3 N3	•,©	99 100	Hd3 Hd4	h- h-	3rd daily de 4th daily de	efrost time efrost time		h- = disabled h- = disabled	
-	-			cabinet probe offset	MIN MAX.   -25 25 °C/°F   in EV3 N3, if P4 = 3, air in probe offset   -25 25 °C/°F   not available in EV3 N3   -25 25 °C/°F   not available in EV3 N7   -25 25 °C/°F   not available in EV3 N7	49	AA	0	select value for high/low temper- ature alarms	not available in EV3 N3  0 = regulation temperature  1 = evaporator temperature	<u> </u>	102	Hd5 Hd6	h- h-	5th daily de 6th daily de			h- = disabled h- = disabled	
-	3	CA2	0.0	auxiliary probe offset					3.2.2.3.3.3	2 = auxiliary temperature not available in EV3 N7	Ø	103	PAR. POF PAS	DEF. 0 -19	SAFETIES enable ON/S	STAND-BY ke	ЭУ	MIN MAX. 0 = no 1 = yes -99 999	
		-		evaporator probe offset		50			threshold for low temperature alarm	-99 99 °C/°F	🖤	105	PAS PA1 PA2	-19 426 824	password level 1 pass level 2 pass			-99 999 -99 999 -99 999	
-	4	CA3	0.0	auxiliary probe offset		51	A2	2	low temperature alarm type	0 = disabled 1 = relative to setpoint 2 = absolute	(1)	N. 107	PAR. Hr0	824 DEF.	REAL TIME (	CLOCK k		MIN MAX. 0 = no 1 = yes	
<u> </u>	5	P0 P1	1	probe type enable °C decimal point	not available in EV3 N7   0 = PTC	52	A4	10.0	threshold for high temperature alarm	<del>                                     </del>		-	PAR.	DEF.	DATA-LOGGING EVLIN serial port configuration			MIN MAX.  O = free	
	7	P2	0	temperature unit of measure- ment	- 0 = °C 1 = °F  0 = disabled 1 = defrost + fan 2 = fan 3 = defrost + fan + door switch (evaporator probe alarm disabled) not available in EV3 N7  0 = disabled 1 = evaporator probe (defrost + fan) 2 = critical temperature probe 3 = condenser probe not available in EV3 N3	53	A5	2	high temperature alarm type	0 = disabled 1 = relative to setpoint					nectivity			1 = forced for EVconnect or EPoCA 2-99 = EPoCA local network	
'	8	P3	1	evaporator probe function  auxiliary probe function		54	A6	12	high temperature alarm delay after power-on	2 = absolute 0 99 min x 10	<u></u>	-	+	15	- 55	r sampling int		address 0 240 min	
						55		15	high/low temperature alarms de- lay			110	rE1	1	recorded ter	emperature		0 = none 1 = cabinet 2 = evaporator	
	$\perp$					56		15	high temperature alarm delay after defrost									3 = auxiliary 4 = cabinet and evaporator 5 = all	
	9	P4	1			57		15	high temperature alarm delay after door closing	0 240 min 1 15 °C/°F 0 = no 1 = yes		N. 111	PAR.	DEF.	MODBUS ad	dress		5 = all MIN MAX. 1 247	
Q						58 59		2.0	power failure duration for alarm recording high/low temperature alarms re-		Id	112	Lb	2	MODBUS address  MODBUS baud rate			0 = 2,400 baud 1 = 4,800 baud	
						60		0	set differential enable alarm buzzer									2 = 9,600 baud 3 = 19,200 baud	
			0	configurable input function	0 = digital input 1 = condenser probe	N.	PAR.	DEF.	FANS	not available in EV3 N3 MIN MAX.	8	ALARI	ИS		1			parity even	
					2 = critical temperature probe 3 = air out probe if P4 = 3, regulation temperature	61	FO	1	evaporator fan mode during normal operation	2 = according to F15 and F16 if compressor off, on if compressor on 3 = thermoregulated (with F1) 4 = thermoregulated (with	COD.					RESET	REMEDI		
					= product temperature (CPT) not available in EV3 N7						Pr1 Pr2	evap	cabinet probe		ılarm aı	automatic	_	k probe integrity	
-	10	P5	0	value displayed	0 = cabinet temperature 1 = setpoint						Pr3	clock	alarm		m	nutomatic manual	set date	k electrical connection e, time and day of the week	
				Value displayed	2 = auxiliary temperature not available in EV3 N3	62	F1	-4.0		F1) if compressor on -99 99 °C/°F	AL AH id	high		ature al rature a alarm	ılarm aı	automatic automatic automatic		vA, A1 and A2 vA, A4 and A5 D e i1	
			0	value displayed	0 = regulation temperature 1 = setpoint 2 = evaporator temperature	63	F2	0	'	differential = 1 °C/2 °F  0 = off 1 = on 2 = according to F0	id PF	1.7		alarm re alarm		automatic manual	- touch	0 e i1 n a key k electrical connection	
					3 = auxiliary temperature 4 = air in temperature	64	F3	2	frost and dripping evaporator fan off maximum time	2 = according to F0  0 15 min	COH			nsation i		automatic manual	check C	ch the device off and on	
-	11	P7	5		not available in EV3 N7 0 10 % x 10	65		0	evaporator fan off time during energy saving	0 240 s x 10	iA	multi	i-purpo	ose inpu			- check i	k C7 D and i1	
				uct temperature (CPT)	CPT = { [(P7 x (air in)] + [(100 - P7) x (air out)] : 100}	66		10	evaporator fan on time during energy saving		Cth	alarn	n			nutomatic	check io		
-	12	P8	5	display refresh time	100} not available in EV3 N7 0 250 s : 10	67	F7	5.0	threshold for evaporator fan on after dripping (relative to setpoint)	-99 99 °C/°F setpoint + F7	th dFd	ľ		mal swit		manual manual	- check i0 and i1		
	N. 13	PAR.	DEF. 2.0	REGULATION setpoint differential	MIN MAX. 1 15 °C/°F	68	F9	0	point) evaporator fan off delay after compressor off	0 240 s if F0 = 2							- touch a key - check d2, d3 and d11		
	14 15	r1 r2	-50 50.0	minimum setpoint maximum setpoint	-99 °C/°F r2 r1 199 °C/°F	69		0	evaporator fan off time with compressor off	0 240 s if F0 = 2	9 TECHNICAL SPECIFICATIONS						,a1.	aller	
	16 17	r4 r5	0.0	setpoint offset in energy saving cooling or heating operation	0 99 °C/°F 0 = cooling	70		1	evaporator fan on time with compressor off	0 240 s if F0 = 2	Construction of the control device			Built	ction contro t-in electro	nic device			
*	18	r6	0.0	setpoint offset in overcool- ing/overheating	0 240 min  0 = disabled  1 = overcooling/overheating  2 = energy saving  0 = asymmetric  1 = symmetric  MIN MAX.	N. 71	PAR.	DEF.				ory of I		nd fire r	esistance	Blac D	ck, self-exti		
<u> </u>	19 20	r7 r8	30	overcooling/overheating duration DOWN key additional function					function	1 = compressor + evaporator fan off 2 = evaporator fan off 3 = cabinet light on 4 = compressor + evaporator fan off, cabinet light on 5 = evaporator fan off + cabinet light on 6 = reserved 7 = energy saving 8 = iA alarm	75.0 x	33.0	x 59.0		2 15/16 x 1 5 terminal bloc	ocks 3 3.	/16 in) w	81.5 mm (2 15/16 x 1 5/16 x ith removable screw terminal	
															control device	block te To b	ks be fitted to	a panel, snap-in brackets pro-	
		r12 PAR.		position of the r0 differential  COMPRESSOR								e of pi	of protection provided by the cover-			cover- IP65	o (front)		
_	_	CO									ing   Connection method   Fixed screw terminal blocks   Removable   screw terminal   Micro-MaTch connector						Micro-MaTch connector		
	24	C2 C3	0	compressor off minimum time compressor on minimum time	0 240 min 0 240 s						for wir	es up	up to 2,5 mm <sup>2</sup> blocks for 2,5 mm <sup>2</sup> ; by re			for wires n²; by reques	up to		
L	25	C4		compressor off time during cabi- net probe alarm						9 = device on/off 10= Cth alarm 11= th alarm	Power	num permitted length for supply: 10 m (32.8 ft)			ft)	Anal		e inputs: 10 m (32.8 ft)	
	26	C5 C6		compressor on time during cabi- net probe alarm threshold for high condensation		72		0	door switch/multi-purpose input activation	0 = with contact closed 1 = with contact open -1 120 min -1 = disabled -1 120 min -1 = until the closing		l inputs: 10 m (32.8 ft) uting temperature			11.)	Fron	Digital outputs: 10 m (32.8 ft)  From 0 to 55 °C (from 32 to 131 °F); from 0 to 50 °C (from 32 a 122 °F) in EV3 N3		
				threshold for high condensation warning threshold for high condensation	differential = 2 °C/4 °F	73		30	open door alarm delay				peratui umidity			Fron	m -25 to 70	70 °C (from -13 to 158 °F) midity without condensate from	
	29	C8	1	alarm high condensation alarm delay	0 15 min	74 75		15	regulation inhibition maximum time with door open		Pollutio	10 to 90% Pollution status of the control device 2							
	30	C10		compressor hours for service	0 999 h x 100 0 = disabled	75	i7	ď	multi-purpose input alarm delay	-1 120 min -1 = disabled if i0 = 10 or 11, compressor									
_	-	PAR.	DEF.	DEFROST (if r5 = 0) automatic defrost interval	MIN MAX.  0 99 h  0 = only manual	76	i10	0	door closed consecutive time for	on delay after alarm reset  0 999 min		1907/2006 EMC 2014/30/UE					1907/2006 JE		
-	32	d1	0	defrost type	0 = only manual if d8 = 3, maximum interval 0 = electric				energy saving	after regulation temperature  < SP  0 - disabled	230 V	AC (+	10% -	-15%), ! d in EV3	50/60 Hz (±3			(+10% -15%), 50/60 Hz (±3 A/2W in EV3 N3, provided by	
					1 = hot gas 2 = compressor stopped	77	i13	180	number of door openings for de- frost	0 = disabled 0 240 0 = disabled	Earthir	ng met	thods f	for the c	ontrol device	a SE None	ELV class 2 e		
<b>⊢</b>	_	d2 d3		threshold for defrost end defrost duration	-99 99 °C/°F 0 99 min	78	i14	32	door open consecutive time for defrost	0 = disabled 0 240 min 0 = disabled	Rated Over-v	impuls voltage	se-with e categ	nstand v Jory	oltage	4 K\		3	
	35	d4		enable defrost at power-on	se P3 = 1, maximum duration	N. 79	PAR.	DEF.	DIGITAL OUTPUTS auxiliary relay function	MIN MAX.  0 = defrost		ftware class and structure alogue inputs			re			ITC probes (cabinet probe and	
_	36	d5 d6		defrost dealy after power-on value displayed during defrost	0 = regulation temperature					1 = evaporator fan 2 = alarm output	PTC pr				rpe K			90 Ω @ 25 °C, 77 °F)	
_	38	d7		dripping time	2 = dEF label  O 15 min  0 = device on hours  1 = compressor on hours  2 = hours evaporator temperature < d9  3 = adaptive  4 = real time	80	u4 PAR.	0	enable cabinet light in stand-by	3 = cabinet light 0 = no 1 = yes manual	NTC pr	obes.	Measurement field Resolution Sensor type		0.1	From -50 to 150 °C (from -58 to 302 °F 0.1 °C (1 °F) B3435 (10 K□Ω @ 25 °C, 77 °F)			
_	39	d8		defrost interval counting mode		81		0	enable alarm output off silencing the buzzer	MIN MAX.	ср.	~e8	Mea	easurement field esolution		Fron		2 @ 25 °C, 77 °F) 25 °C (from -40 to 221 °F)	
•						N. 82		DEF.			Digital		nputs			1 dr	ry contact available ir	(door switch/multi-purpose); n EV3 N3	
-	40	d9	0.0			N.	PAR.	DEF.	REAL TIME ENERGY SAVING (if	-1 = until the door opening	Other	er inputs			Input configurable for analoguital input (door switch/multi-p		or analogue	e input (auxiliary probe) or dig- urpose, dry contact); not avail-	
	41	d9 d11	0	matic defrost interval counting enable defrost timeout alarm	0 = no 1 = yes	83 H01			r5 = 0)  Monday energy saving time  Monday energy saving maximum	0 23 h	Dry co	contact			able in EV3 N Contact type Power supply		5 VDC, 1.5 mA		
	42	d15	0	compressor on consecutive time for hot gas defrost	99 min	84 85	H02	0	Monday energy saving maximum duration  Tuesday energy saving time		Digita!	oute	ts		Protection	ion	I relave /-	None None Ompressor and auxiliary relay)	
L		d16		pre-aripping time for not gas de- frost    Adaptive defrost interval				0 23 h	Digital outputs 2 electro-medi Compressor relay (K1)  Auxiliary relay (K2)						hanical relays (compressor and auxiliary relay)  SPST, 16 A res. @ 250 VAC  SPDT, 8 A res. @ 250 VAC				
	44	d18	40	adaptive defrost interval	0 999 min if compressor on + evapora- tor temperature < d22	87 88		0	Wednesday energy saving time Wednesday energy saving maxi-	0 23 h 0 24 h	Type 1	1 or Ty	/pe 2 A	ctions	e 1 or Type	Туре			
-	45	d19	3.0	threshold for adaptive defrost	0 = only manual	89	H07	0	mum duration Thursday energy saving time	0 23 h	tions Display	ys				3 dig	3 digits custom display, with function icons		
		(relative to optimal evaporation temperature) optimal evaporation temperature - d19			optimal evaporation tempera-	90	H08	0	Thursday energy saving maximum duration		Alarm					1 TT	Incorporated  1 TTL MODBUS slave port for EVconnect app,		
L						91	H09	0	Friday energy saving time	0 23 h	1					EPo	JA remote	monitoring system or for BMS	

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

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