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flap for plastic

flap fo

metal

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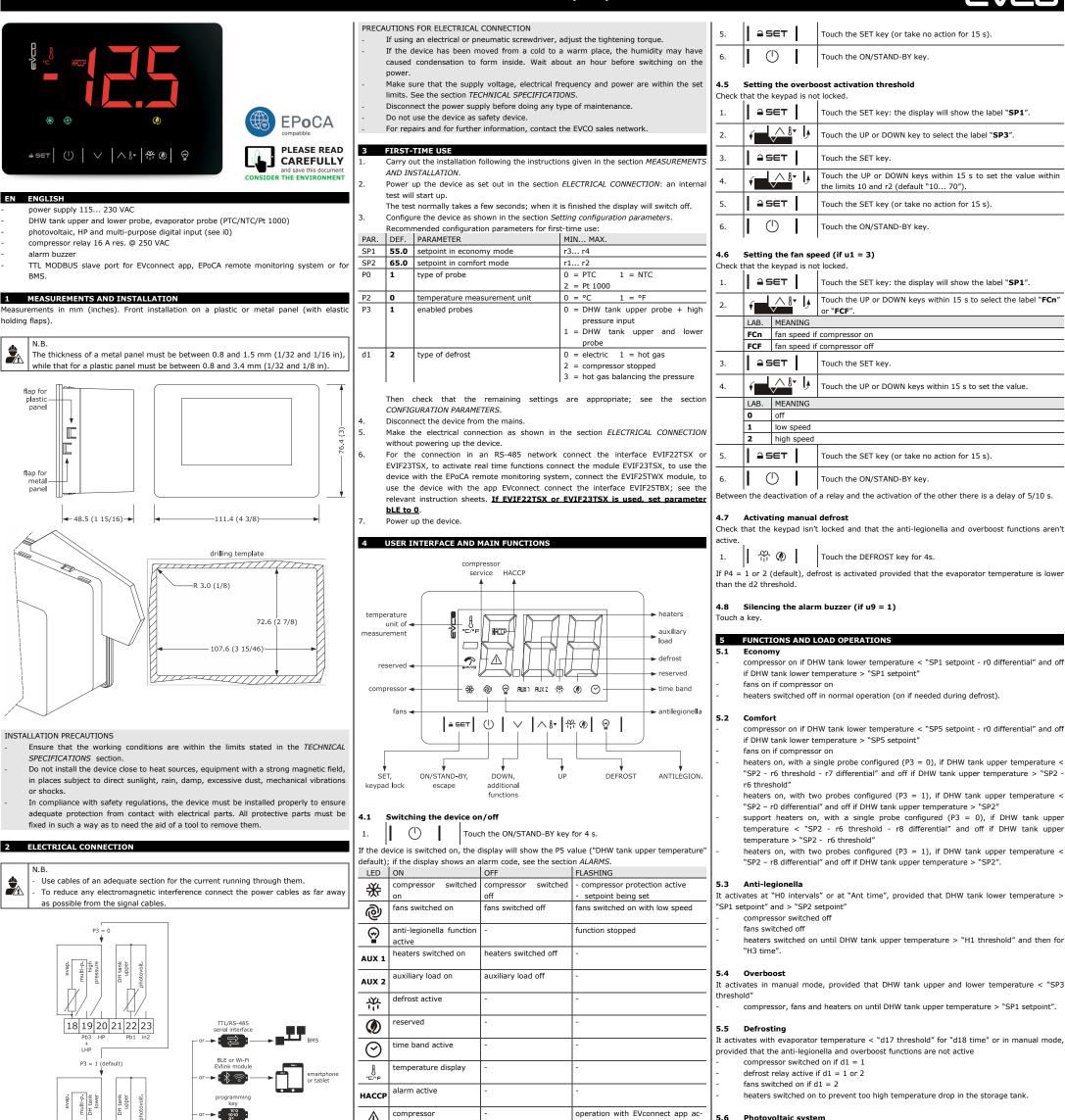
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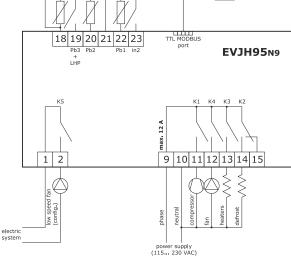
holding flaps).

alarm buzzer

Controller for DHW heat pump heaters







 Mhen 30	compressor maintenance reque Os have elapsed with	<u>i</u>	operation with EVconnect app ac- tive the display will show the " Loc " label	-	Photovoltaic system ivates with photovoltaic input active operation as in comfort mode, except for "SP2 setpoint" which becomes "SP6 setpoint".
4.2 U Touch a 4.3 S	keypad will lock auto Unlocking the keyp key for 1 s: the disp Setting the setpoin nat the keypad is not	ad lay will show the label "UnL". t Economy		5.7 It acti setpoi - -	Green ivates with multi-purpose input active and DHW tank upper and lower temperature > "SP8 int" compressor switched off fans switched off heaters switched off.
1. 2. 3.			within 15 s to set the value within	tempe	Antifreeze function is used to prevent the water freezing. It is activated when tank upper erature < "SP7 setpoint" - "r0 differential" and this function is deactivated when tank r temperature > "SP7 setpoint" heaters are switched on.
4. 5.	a set	the limits r3 and r4 (default ". Touch the SET key (or take no Touch the ON/STAND-BY key.	o action for 15 s).	. 5.9 This f only if	<pre>unction can be active only if the controller is in stand-by. Pre opening hot gas defrost valve function is used to balance the pressure at the compressor start-up, and it is activated f "d1" = 3.</pre>
	Setting the Comfor nat the keypad is not	-			unction switch on the defrost output "i11" seconds before the start-up of the compressor, accurs every time the compressor started, even if there is no defrost request.
1.	• •	Touch the SET key: the displa	ay will show the label "SP1".	The fa	Fan operation an operates depending on the active function, normally C12 second before the switch on
2. 3.		Touch the UP or DOWN key to	o select the label "SP2".	of the	e compressor. There are some exceptions: defrost: in case of hot gas (d1=1) compressor is active but fan is off. In case of compressor stop (d1=2) compressor is off but fan is active
4.	4 / 10 7	Touch the UP or DOWN keys the limits r1 and r2 (default "	within 15 s to set the value within 40 70").		alarms: in case of LHP compressor is off but fan is active.

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	Image: Non-Base of the second seco	e keypad DESC displa deleta SET SET SET SET SET SET SET SET	d is no RIPTIC RIPTIC Ay com ay co	<pre>by compressor functioning hours t locked. Touch the DOWN key for 1 s: the display will show a code. Touch the UP or DOWN key within 15 s to select a label. ON pressor working hours in hundreds pressor working hours Touch the SET key. Touch the UP or DOWN key to set "149" (to select rCH). Touch the SET key. Touch the ON/STAND-BY key (or take no action for 60s) to exit the procedure. Touch the SET key for 4 s: the display will show the label "PA". Touch the SET key. Touch the SET key (or take no action for 15 s): the display will show the label "SP". Touch the SET key. Touch the UP or DOWN key to select a parameter. Touch the UP or DOWN key within 15 s to set -19". Touch the UP or DOWN key within 15 s to set the value. Touch the SET key. Touch the SET key. Touch the SET key. Touch the SET key (or take no action for 15 s): the display will show the label "SP". Touch the SET key. Touch the SET key. Touch the SET key. Touch the SET key (or take no action for 15 s): the display will show the label "SP". Touch the SET key. Touch the SET key. Touch the SET key. Touch the SET key (or take no action for 15 s): the display will show the label "SP". Touch the SET key. Touch the SET key (or take no action for 15 s). Touch the SET key for 4 s (or take no action for 60s) to exit the procedure. Touch the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to exit the procedure. Count the SET key for 4s (or take no action for 60s) to e</pre>	○、	17 18 19 No. 20 21 22 23 24 25 26 27 28 No. 29 30 31 32 33 34 35	

Check that the keypad is not locked.

1.	<u>∧</u> 8•	Touch the UP key.
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7.3	Resto	ring fa	ctory s	settings (default)			49	
*	N.B.						50	t
Ŷ¢		eck that RAMETE		actory settings are appropriate; see	e the section CONFIGURATION		51	╞
1.		SET		Touch the SET key for 4 s: the disp	play will show the label " PA ".		52	ŀ
2.		SET		Touch the SET key.			No.	
3.	٠.	<u>^8</u>	• •	Touch the UP or DOWN key within	15 s to set " 149 ".		53 54	t
			-	Touch the SET key (or take no ac		S	55	┞
4.	=	SET	 	show the label " dEF ".	<u> </u>			
5.	a	SET		Touch the SET key.			56	┢
6.	Ý	\sim	• •	Touch the UP or DOWN key within	15 s to set " 1 ".		No.	╞
7		SET	1	Touch the SET key (or take no ac			57	T
7.	-	361	I	show "" flashing for 4 s, after procedure.	which the device will exit the		58	┢
8.			ne devi	ce from the power supply. Touch the SET key for 1s before	action 6 to exit the procedure		59	Γ
9.		SET		beforehand.			No.	t
8	CONF	IGURA	TION F	PARAMETERS			60	
	No.	PAR.	DEF.	SETPOINT	MIN MAX.		<u> </u>	L
	1	SP1	52.0	setpoint in economy mode	r3 r4		61	
	2	SP2 SP3	60.0 40.0		r1 r2 10 °C/°F r2		62 63	F
~-	4	SP5	52.0	heat pump switch-off threshold	r1 SP2		05	
₽	5	SP6	70.0	photovoltaic system setpoint	40 100 °C/°F		64	
	6	SP7	5.0	setpoint in antifreeze mode	0 40 °C/°F		65	t
	8	SP8 SP9	40.0 -7.0	setpoint in green mode cold evaporator alarm threshold	0 100 °C/°F -25 25 °C/°F		66	┞
	9	SPA	-25	evaporator failure alarm	-50 25 °C/°F			L
	No.	PAR.	DEF.	threshold ANALOGUE INPUTS	MIN MAX.		67	
	10	CA1	0.0	DHW tank upper probe offset	-25 25 °C/°F		68	ſ
	11 12	CA2 CA3	0.0	DHW tank lower probe offset evaporator probe offset	-25 25 °C/°F -25 25 °C/°F		69	┝
	13	P0	1	type of probe	0 = PTC 1 = NTC		N	
	14	P1	1	enable decimal point °C	2 = Pt 1000 0 = no 1 = yes		No. 70	t
	15	P2 P3	0	temperature measurement unit	$0 = {}^{\circ}C$ $1 = {}^{\circ}F$			
	16	P3	1	enabled probes	0 = DHW tank upper probe + high pressure input	~		
~					1 = DHW tank upper and lower probe		71	
Q	17	P4	2	evaporator probe function	0 = disabled (defrost every			
					d18 minutes) 1 = defrost activation and		72	┢
					defrost end		N.	t
	18	P5	0	value displayed	2 = defrost activation0 = DHWtankupper		73 74	┝
					temperature 1 = setpoint in comfort		75	Ļ
					mode		/3	
					2 = DHW tank lower temperature		76	
					3 = evaporator temperature		77	t
	19 No.	P8 PAR.	5 DEF.	display refresh time REGULATION	0 250 s: 10 MIN MAX.		78	┟
	20	r0	2.0	setpoint differential	1 30 °C/°F	\square	70	Ļ
	21	r1	20.0	minimum setpoint in comfort mode	10 °C/°F r2		79	ļ
	22	r2	60.0	maximum setpoint in comfort mode	r1 100 °C/°F		80	
	23	r3	20.0	minimum setpoint in economy	10 °C/°F r4		81	ſ
	24	r4	52.0	mode maximum setpoint in economy	r3 100 °C/°F		82	t
4				mode	· · · · · · · · · · · · · · · · · · ·		83	┞
	25	r5	0	enable setpoint blocking in economy and comfort modes	0 = no 1 = yes		84	ļ
	26	r6	0.0	heater threshold in comfort mode	0 50 °C/°F		04	
	27	r7	15.0	heater threshold differential in	1 30 °C/°F		85	
	28	r8	20.0	comfort mode support heater threshold	r7 30 °C/°F	$\overline{\mathbf{O}}$	N. 86	F
	No	DAD	DEE	differential in comfort mode		~	86 87	t
	No. 29	PAR. C0	DEF. 3	COMPRESSOR compressor on delay from	MIN MAX. 0 240 min		N. 88	ľ
	30	C1	3	power-on minimum time between two	0 240 min		00	
		_		power-ons of compressor			89 90	┞
	31 32	C2 C3	3 0	minimum compressor-off time minimum compressor-on time	0 240 min 0 240 s	100		
	33	C10	0	compressor hours for	0 999 h x 100			
Ľ	34	C11	120	maintenance interval for cold evaporator	0 = disabled 0 999 min			
	35	C12	60	control compressor-on delay from fan	0 240 s			L
				on for cold evaporator control			N. 91	┞
	36	C13	20	compressor-on delay from green multi-purpose input reset	0 240 min		92	t
	37	C14	20	compressor-on consecutive time	-1 240 min	ld		
	No.	PAR.	DEF.	for evaporator failure control DEFROST	-1 = disabled MIN MAX.		02	ŀ

		49	A6	1	high temperature alarm delay	0 240 min
					from power-on	
NFIGURATION		50	A7	15	high/low temperature alarm delay	0 240 min
		51	A10	0	power failure duration for alarm	0 240 min
					recording	
e label " PA ".		52	A11	10.0	high/low temperature alarm reset differential	1 30 °C/°F
		No.	PAR.	DEF.	FAN	MIN MAX.
		53	F0	1	enable fan	0 = no 1 = yes
<i>"</i> .		54	FCn	2	fan speed if compressor on	1 = low speed 2 = high speed
he display will	S	55	FCF	1	fan speed if compressor off	0 = off
						1 = low speed
		56	FdF	1	fan speed in defrost	2 = high speed 1 = low speed
		50	1 di	-		2 = high speed
		No.	PAR.	DEF.	ANTI-LEGIONELLA	MIN MAX.
he display will e will exit the		57	H0	30	anti-legionella interval	0 99 d (days) 0 = none
	V	58	H1	65.0	anti-legionella thermal threshold	10 199 °C/°F
		59	H3	2	anti-legionella thermal threshold	0 240 min
the procedure		No.	PAR.	DEF.	maintenance duration	0 = function disabled MIN MAX.
		60	i0	1 DEF.	DIGITAL INPUTS multi-purpose input function	0 = disabled
					· · · · · · · · · · · · · · · · · · ·	1 = pressure switch
		<i></i>		-		2 = green
		61	i2	5	compressor-on delay from pressure switch alarm reset	0 120 min
		62	i3	1	enable photovoltaic system	0 = no 1 = yes
		63	i4	0	photovoltaic system input	0 = with contact closed
		EA.	:=	_	activation	1 = with contact open
	F	64	i5	0	high pressure input activation	0 = with contact closed 1 = with contact open
		65	i8	3	number of pressure switch	0 15
					alarms for unit blocked alarm	0 = disabled
		66	i9	240	counter reset time for pressure switch alarms	1 999 min
		67	i10	24	pressure switch alarm delay	0 240 sx10
					from compressor-on	
		68	i11	60	time pre opening hot gas defrost valve	0 240 s
		69	i12	0	fan off during pressure	0 = no 1 = yes
1 = NTC					switch/unit blocked alarm	
1 - 1/		No.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.
1 = yes 1 = °F		70	u1	3	relay K5 configuration	0 = disabled 1 = circulation pump
upper probe						2 = support heaters
ssure input	X					3 = low speed fan
k upper and		71	u2	60	compressor on delay from	0240 s 0 = 0 if device on
e defrost every					circulation pump on and circulation pump off delay from	
es)					compressor off	
ctivation and		72 N.	u9 PAR.	1 DEF.	enable alarm buzzer CLOCK	0 = no 1 = yes MIN MAX.
ivation		73	Hr0	OEF.	enable clock	0 = no $1 = yes$
ank upper		74	Hd1	1	time for switch on on Monday	1 = with On1 e OF1
re in comfort		75	Hd2	1	time for switch on on Tuesday	2 = with On2 e OF2 1 = with On1 e OF1
connort					and for switch on on ruesuay	1 = with Onle OFI 2 = with On2 e OF2
ank lower		76	Hd3	1	time for switch on on	1 = with On1 e OF1
re temperature		77	Hd4	1	Wednesday time for switch on on Thursday	2 = with On2 e OF2 1 = with On1 e OF1
peruture						1 = with Onle OF1 2 = with On2 e OF2
		78	Hd5	1	time for switch on on Friday	1 = with On1 e OF1
	\square	79	Hd6	2	time for switch on on Saturday	2 = with On2 e OF2 1 = with On1 e OF1
		.3			ame for switch on on Saturday	1 = with Onle OFI 2 = with On2 e OF2
		80	Hd7	2	time for switch on on Sunday	1 = with On1 e OF1
		81	HOn1		time for time band 1 on	2 = with On2 e OF2 00:00 23:59 h:min
						00:00 23:59 h:min 00:00 = disabled
		82	HOF1		time for time band 1 off	00:00 23:59 h:min
		83	HOng		time for time band 2 on	00:00 = disabled
1 = yes		ده _	HOn2			00:00 23:59 h:min 00:00 = disabled
		84	HOF2		time for time band 2 off	00:00 23:59 h:min
		0	۸+	-	time anticlogionello en	00:00 = disabled
		85	Ant		time anti-legionella on	00:00 23:59 h:min 00:00 = disabled
	$\overline{\bigcirc}$	N.	PAR.	DEF.	SAFETIES	MIN MAX.
		86	PA1	426	level 1 password	-99 999
		87 N.	PA2 PAR.	824 DEF.	level 2 password DATA-LOGGING EVLINK	-99 999 MIN MAX.
		88	bLE	1	enable Bluetooth	0 = no $1 = sì$
			-			>1 reserved
		89 90	rE0 rE1	15 1	data-logger sampling interval	0 240 min
	501	90	,	1	recorded temperature	0 = nessuna 1 = DHW tank upper
)						2 = DHW tank lower
,						3 = evaporator 4 = DHWtankupporand
						4 = DHW tank upper and lower
						5 = tutte
		N.	PAR.	DEF.	MODBUS	MIN MAX.
		91 92	LA Lb	247 2	MODBUS address MODBUS baud rate	1 247 0 = 2.400 baud
	ld	52				1 = 4.800 baud
						2 = 9.600 baud
		93	LP	2	narity	3 = 19.200 baud 0 = none 1 = odd
	1	53	LF	_	parity	0 = none $1 = odd$

		- 1					
2.	ŕ		Touch the UP or DOWN key within 15 s to select the label " ${ m rtc}$ ".				
3.		БЕТ	Touch the SET key: the display will show the label " $\mathbf{y}\mathbf{y}''$ followed by the last two figures of the year.				
4.	۲ –		Touch the UP or DOWN key within 15 s to set the year.				
5.	Repea	t actions 3. a	nd 4. to set the next labels.				
	LAB. DESCRIPTIO		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.	 	БЕТ	Touch the SET key: the display will show the label for the day of the week.				
7.	۲,		Touch the UP or DOWN key within 15 s to set the day of the week.				
	LAB.	DESCRIPTIO	N				
	Mon	Monday					
	tuE	Tuesday					
	UEd Wednesday						
	thu Thursday						
	Fri	Friday					
	Sat	Saturday					
	Sun	Sunday					
8.		Sunday	Touch the SET key: the device will exit the procedure.				
8. 9.		L L	Touch the SET key: the device will exit the procedure. Touch the ON/STAND-BY key to exit the procedure beforehand.				

▲ 39 d2 3.0 defrost end threshold	1 = hot gas 2 = compressor stopped 3 = hot gas balancing the pressure -50 50 °C/°F
40 d3 3 defrost duration	0 99 min
	0 = defrost disabled If P4 = 1, maximum duration
41 d17 -2.0 evaporation threshold for defrost interval count	-50 50 °C/°F
42 d18 30 defrost interval	0 240 min
No. PAR. DEF. ALARMS	0 = manual only MIN MAX.
43 A0 O select value for low temperature alarm	
44 A1 10.0 low temperature alarm threshold	0 50 °C/°F
45 A2 0 low temperature alarm type	0 = disabled 1 = absolute
46 A3 0 select value for high temperature alarm	0 = DHW tank upper temperature 1 = DHW tank lower temperature 2 = evaporator temperature
47 A4 75.0 high temperature alarm threshold	0 199 °C/°F
48 A5 1 high temperature alarm type	0 = disabled 1 = absolute

CODE	DESCRIPTION	RESET	TO CORRECT		
Pr1 DHW tank upper probe		automatic	- check P0		
	alarm		- check probe integrity		
Pr2	DHW tank lower probe alarm	automatic	- check electrical connection		
Pr3	evaporator probe alarm	automatic			
rtc	clock alarm	manual	set date, time and day of the week		
AL	low temperature alarm	automatic	check A0, A1 and A2		
AH	high temperature alarm	automatic	check A3, A4 and A5		
PF	power failure alarm	manual	 touch a key check electrical connection 		
LHP	pressure switch/unit	automatic/	- switch the device off and on		
	blocked alarm	manual	- check i0, i8 and i9		
HP	high pressure alarm	manual	 switch the device off and on check P3 		
FiL	compressor maintenance alarm	automatic	check C10 by silencing the buzzer you delete the compressor functioning hours		
UtL	evaporator failure alarm	manual	- switch the device off and on - check SPA and C14		
10	TECHNICAL SPECIFICATION	IS			
Purpos	e of the control device	Fund	tion controller		
Constr	uction of the control device	Built	-in electronic device		
	ner	L.L.	black, self-extinguishing.		

Mounting meth	nods for the con	trol device	front installation on a plastic or metal pan (with elastic holding flaps)		
f		the design of the second	1	olding flaps)	
Degree of p covering	protection prov	idea by the	IP65 (front)		
Connection me	ethod				
		for wires up to	Pico-Blade con	nector	
-	novable screw				
	2,5 mm ² by red				
		connection cabl		10 (00 0 0)	
	10 m (32.8 ft)		1	ts: 10 m (32.8 ft)	
	10 m (32.8 ft)		1	: 10 m (32.8 ft) °C (from 23 to 131 °F)	
Operating tem Storage tempe			1	0 °C (from -13 to 158 °F)	
Operating hum			1	dity without condensate fro	
operating nam	liaity		10 to 90%	alty whenour condensate	
Pollution statu:	s of the control of	device	2		
Conformity			1 -		
RoHS 2011/65	/CE	WEEE 2012/19	9/EU	REACH (EC) Regulat	
				1907/2006	
EMC 2014/30/	UE		LVD 2014/35/U	JE	
Power supply			115 230 VAG	C (+10% -15%), 50/60 Hz (
			Hz), max. 6 VA	A insulated	
	ods for the conti		None		
	-withstand volta	ge	2.5 KV		
Over-voltage c			П		
Software class			A		
Analogue input	ts		2 for PTC, NTC or Pt 1000 probes (DHW tan		
DTC probos	Concor type		upper probe and evaporator probe) KTY 81-121 (990 Ω @ 25 °C, 77 °F)		
PTC probes	Sensor type Measurement	fiold	1	90 Ω @ 25 °C, 77 °F) 50 °C (from -58 to 302 °F)	
	Resolution	lielu	0.1 °C (1 °F)		
NTC probes	Sensor type		1	@ 25 °C, 77 °F)	
1110 p. c	Measurement	field	From -40 to 105 °C (from -40 to 221 °F) 0.1 °C (1 °F)		
	Resolution				
Pt 1000	Measurement	field:	from -100 to 650 °C (from -148 to 999 °F)		
probes	Resolution:		0.1 °C (1 °F).		
Digital inputs			2 dry contact (photovoltaic and multi-purpo	
Dry contact		Contact type	input)	5 VDC, 2 mA	
Diy contact		Power supply		None	
		Protection	None		
Other inputs			red for analogue	e input (DHW tank lower prol	
			iput (high pressu		
Digital outputs		-	mechanical relay		
Relay K1			SPST, 16 A res. @ 250 VAC		
Relay K2			SPDT, 8 A res.	@ 250 VAC	
Relay K3			SPST, 8 A res.	@ 250 VAC	
Relay K4			SPST, 3 A res.		
Relay K5			SPST, 3 A res.		
			een each digital	l output connector and the r	
	ents of the devi	ce	1		
Type 1 or Type			Type 1		
	tures of Type	1 or Type 2	С		
actions			Custan disala	· 2 diait with function income	
Displays			1	y, 3 digit, with function icons	
			Incorporated		
Alarm buzzer Communication			1	S slave port for EVconnect a	

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

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