EV3411 Multi-sensor

Universal controllers with one regulation output for industrial applications







AO gnd 12 V Pb:

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, humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS;
- disconnect the power supply before carrying out any type of maintenance
- do not use the device as safety device;
- for repairs and for further information, contact the EVCO sales network

3 FIRST-TIME USE

- Install following the instructions given in the section MEASUREMENTS AND INSTALLATION.
- Power up the device as set out in the section ELECTRICAL CONNECTION: an internal 2. test will start up.

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

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

PAR.	DEF.	PARAMETER	MIN MAX.
SP	0.0	setpoint	r1 r2



SP + r0

OFF

Operation with analogue output 0-10 V (ub = 0, default) proportional to the regulation temperature (ua = 1, default)



		149	valu	value for restoring the factory information (default)						
		161	valu	ie for sa	aving customised settings					
	4.	≅ 5€T			Touch the SET key (or take no action for 15s): the display will show the label " dEF " (for setting the " 149 " value) or the label " MAP " (for setting the " 161 " value)					
	5.	≙ SET			Touch the SET key.					
	6.				Touch the UP or DOWN key within 15s to set "1".					
	7.				Touch the SET key (or take no action for 15s): the display will show "" flashing for 4s, after which the device will exit the procedure.					
	8.	Disconnect the device from the power supply.								
n	9. aset 			I	Touch the SET key for 2s before action 6 to exit the procedure beforehand.					
	8 CONFIGURATION PARAMETERS									
	IJ≣	Ν.	PAR.	DEF.	SETPOINT	MIN MAX.				
	•	1	SP	0.0	setpoint	r1 r2				
		Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.				
		2	CA1	0.0	regulation probe offset	-25 25 °C/°F				
		3	PO	2	type of probe	0 = PTC 1 = NTC 2 = J 3 = K 4 = Pt 100 3 wires				

5 = Pt 100 2 wires 6 = Pt 1000 3 wires = Pt 1000 2 wires 8 = 4-20 mA 9 = 0-20 mA 10= 2-10 V 11= 0-10 V 12= Ni 120 3 wires 13= Ni 120 2 wires

regulation
temperatur

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				uction sheet ver. 3.0 Code 1043411N	1E303 Page 2 01 2 P1 14/23					
	4	P1	o	enable decimal point °C	0 = no $1 = ves$	Power supply:	10 m (32.8 ft)		Analogue input	s: 10 m (32.8 ft)
			-		if $PO = 2$ or 3, not effective	Digital inputs:	10 m (32.8 ft)		Analogue outpu	uts 0-10 V: 10 m (32.8 ft)
					if P0 = 8 11, position of	PWM analogue outputs: 1 m (3.28 ft)		Digital outputs: 10 m (32.8 ft)		
					decimal point:	Operating temperature		From -5 to 55 °C (from 23 to 131 °F)		
					0 = none	Storage temperature Operating humidity Pollution status of the control device		From -40 to 70 °C (from -40 to 158 °F)		
					1 = tens digit				Relative humidity without condensate from 10	
	5	P2	0	measurement unit	0 = °C $1 = °F$				to 90%	ity without condensate from 10
	-		-		2 = % 3 = bar			avice	2	
					4 = none	Compliance:	s of the control of	evice	2	
					options 2 4 effective only on	Compliance:			(51)	
					LEDs and if P0 = 8 11	RoHS 2011/65	/EC	WEEE 2012/19	/EU	REACH (EC) Regulation
	6	D3	0.0	minimum transducer calibration	-199 999 points	-				1907/2006
	0		0.0	value		EMC 2014/30/	EU		LVD 2014/35/E	U
	7	D4	100	maximum transducer collibration	100 000 points	Power supply:				
	'	P4	100		-199 999 points	230 VAC (+10	% -15 %), 50/6) Hz (±3 Hz), n	nax. 4 VA in EV3	3 M7
	-					12-24 VAC/DC	(+10% -15%), 5	60/60 Hz (±3 H	z), max. 5 VA/3	W in EV3 M3
	8	P5	0	value displayed	0 = regulation temperature	Earthing meth	ods for the contro	l device	None	
					1 = setpoint	Rated impulse	-withstand voltag	e	2.5 KV	
	9	P8	5	display refresh time	0 250 s : 10	Over-voltage (ategory		Ш	
	Ν.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.	Software class	and structure		Δ	
	10	uA	0	outputs configuration	0 = analog output not	Analogue innu			1 (DTO NT	0 DI 400 DI 4000 NI 400
					enabled, K1 relay with	Analogue inpu	15		T TOP PIC, NI	C, PL 100, PL 1000 OF NI 120
					regulator				mA 0.10 V or	2 10 V transducers (regulation
					1 = analog output				nrobe)	2-10 V transducers (regulation
					proportional to the	DTO I				
					regulation temperature,	PTC probes	Measurement fi	eld:	from -50 to 150	0 °C (from -58 to 302 °F)
30					K1 relay not enabled		Resolution:		0.1 °C (1 °F)	
					2 = analog outputwith	NTC probes	Measurement fi	eld:	from -40 to 110	0 °C (from -58 to 230 °F)
					regulator, K1 relay not		Resolution:		0.1 °C (1 °F)	
					enabled	Pt 100 and Pt	Measurement fi	eld:	from -100 to 6	50 °C (from -148 to 999 °F)
	11	ub	0	type of analogue output	0 = 0.10 V 1 = PWM	1000 probes	Resolution:		0.1 °C (1 °F)	
	12	uc	0.0	regulation temperature for	-199 ud °C/°F/points	Ni 120 probes	Measurement fi	eld:	from -80 to 300	0 °C (from -112 to 999 °F)
				minimum analogue output value			Resolution:		0.1 °C (1 °F)	
	13	ud	100	regulation temperature for	uc 999 °C/°F/points	J thermo-	Measurement fi	eld:	from 0 to 700	°C (from 32 to 999 °F)
	-			maximum analogue output value		couples	Resolution:		1 °C (1 °F)	
	Ν	PAP	DEE	REGULATION	MIN MAX	K thermo	Measurement fi	eld:	from 0 to 999	°C (from 32 to 999 °F)
	14	r A	0	PID control configuration	0 - off 1 - op	couples	Resolution		1 °C (1 °E)	
	14	1A 	20			0.20 mA 4.20		2-10.1	can be configure	
	15	10	2.0	minimumtint	1	transducers:	, ma, o- to v and	2-10 V	can be conligur	
	16	r1	0.0	minimum setpoint	-199 °C/°F f2	Digital inputs		1 dry content	(multi pure)) not available if the conterm
	17	r2	350	maximum setpoint	r1 999 °C/°F	Digital inputs		i dry contact	(multi-purpose,), not available if the analogue
	18	r5	1	hot or cold mode regulation	0 = cold mode			input is config	ured for Pt 100,	Pt 1000 or NI 120 3 wires
				regulator	1 = hot mode	Dry contact		Contact type:		3.3 V, 1 mA
	19	r11	0.0	digital input second setpoint	-199 999 °C/°F			Protection:		none
1					setpoint + r11	Analogue outp	uts	1 for 0-10 V o	r PWM signal.	
T	20	r14	50	proportional band	1 999 °C/°F			Available in th	ie models with p	power supply 12-24 VAC/DC on
	21	r15	60	integral action time	0 999 s			condition that	they are power	ed at 24 VAC/DC
	22	r16	30	derivative action time	0 999 s	Signal	Minimum applica	ole impedance	1 KOhm; 2 KC	0hm in EV3 M7.
	23	r17	180	PID regulator cycle time on PWM	1 999 s	0-10 V	Resolution:		0.01 V	
	20			relay or analogue output		Digital outputs	;	1 with electro	mechanical relay	y (K1 relay)
	24	r18	0	PID regulator minimum time on	0 240 s	K1 relay			SPST, 16 A res	s. @ 250 VAC
	24	110	Ŭ	on PWM relay or analogue output	0 240 3	Type 1 or Type	e 2 Actions		Type 1	
	25	r10	0	BID regulator minimum time off	0 240 s	Additional fea	itures of Type	1 or Type 2	C.	
	25	I LIA	0	PID regulator minimum time of	0 240 \$	actions	itures or type	i oi iype z		
		DAD	DEE			Displays			LED display 3	digit with function icons
	N.	PAR.	DEF.	REGULATOR PROTECTION	MIN MAX.				Duilt in	
	26	C1	0	minimum time between two	0 240 min	Alarm buzzer			Built-in	
						Communicatio	ns ports		1 TTL MODBL	JS slave port for programming
				power-ons of regulator					Lkey, for EVIII	k BLE module (app EVconnect)
Ç	27	C2	0	minimum time off and delay from	0 240 min				,	
	27	C2	0	power-ons of regulator minimum time off and delay from power-on of regulator	0 240 min				or for serial in	terface (BMS)
Ĩ	27 28	C2 C3	0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator	0 240 min 0 240 s				or for serial in	terface (BMS)
	27 28 29	C2 C3 C4	0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during	0 240 min 0 240 s 0 = off 1 = on				or for serial in	terface (BMS)
	27 28 29	C2 C3 C4	0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm	0 240 min 0 240 s 0 = off 1 = on				or for serial in	terface (BMS)
	27 28 29 N.	C2 C3 C4 PAR.	0 0 0 DEF.	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS	0 240 min 0 240 s 0 = off 1 = on MIN MAX.				or for serial in	terface (BMS)
	27 28 29 N. 30	C2 C3 C4 PAR. A1	0 0 0 DEF. 0.0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F				or for serial in	terface (BMS)
	27 28 29 N. 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 DEF. 0.0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled				or for serial in	terface (BMS)
	27 28 29 N. 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 DEF. 0.0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum				or for serial in	terface (BMS)
	27 28 29 N. 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 DEF. 0.0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum				or for serial in	terface (BMS)
	27 28 29 N. 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 DEF. 0.0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP				or for serial in	terface (BMS)
	27 28 29 <u>N.</u> 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP				or for serial in	terface (BMS)
	27 28 29 N. 30 31	C2 C3 C4 PAR. A1 A2	0 0 0 0 0.0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min				or for serial in	terface (BMS)
	27 28 29 30 31 32 33	C2 C3 C4 PAR. A1 A2 A3 A7	0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33	C2 C3 C4 PAR. A1 A2 A3 A7	0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 33	C2 C3 C4 PAR. A1 A2 A3 A7 A8	0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 \circ C/ \circ F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 33	C2 C3 C4 PAR. A1 A2 A3 A7 A8	0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min0 999 min				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 33	C2 C3 C4 PAR. A1 A2 A3 A7 A8	0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 35	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11	0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulaton probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 1 99 °C/°F				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 35	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11	0 0 DEF. 0.0 0 0 0 2.0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min 1 99 °C/°F				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 34 35 36	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13	0 0 0 0 0 0 0 0 0 0 2.0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min 1 99 °C/°F 0 = no 1 = yes				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 34 35 36 N.	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min 0 999 min 0 999 min 0 999 min				or for serial in	terface (BMS)
	27 28 29 30 31 33 33 34 34 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute maximum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min 1 999 °C/°F 0 = no 1 = yes MIN MAX. 0 = disabled				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 33 34 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 4 = maximum relative to SP 0 999 min 0 999 min 0 999 min 1 99 °C/°F 0 = no 1 = yes MIN MAX. 0 = disabled 1 = alarm IA				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 35 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 0 0 2.0 1 DEF. 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 0 2.0 1 DEF. 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 991 min0 992 min0 993 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm iA + regulator off2 = alarm iA + regulator off3 = switches device on/off				or for serial in	terface (BMS)
	27 28 29 30 31 31 33 33 34 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 2.0 1 DEF. 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm iA2 = alarm iA + regulator off3 = switches device on/off4 = modifies setpoint				or for serial in	terface (BMS)
	27 28 29 30 31 31 33 33 34 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 991 min 0 992 min 0 993 min 0 995 min 1 = alarm iA 2 = alarm iA + regulator off 3 = swit				or for serial in	terface (BMS)
	27 28 29 30 31 32 33 34 35 35 36 N. 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input activation	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact closed1 = with contact closed				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 34 35 36 N. 37 38	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input activation	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 s				or for serial in	terface (BMS)
	27 28 29 N. 30 31 32 33 34 35 36 N. 37 38 38	C2 C3 C4 PAR. A1 A2 A3 A7 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAP	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulator probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists multi-purpose input function multi-purpose input alarm delay	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 1 99 °C/°F 0 = ano 1 = yes MIN MAX. 0 = disabled 1 = alarm IA 2 = alarm IA + regulator off 3 = switches device on/off 4 = modifies setpoint 0 = with contact closed 1 = with contact open 0 999 s				or for serial in	terface (BMS)
	27 28 29 N. 30 31 33 33 34 35 35 34 35 37 37 37 37 37 37 37 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input ativation multi-purpose input alarm delay SECURITY	0 240 min0 240 s0 = off1 = onMIN MAX. $-199 999 °C/°F$ 0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 siMIN MAX.0 = with contact losed1 = with contact open0 999 sMIN MAX.				or for serial in	terface (BMS)
	27 28 29 N. 30 31 33 33 34 35 34 34 35 37 37 37 37 38 39 N. 40	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. POF	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm threshold temperature alarm delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input alarm delay SECURITY enable OI/STAND-BY key	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yeson0 999 s				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 33 34 35 36 N. 37 37 38 38 39 N. 40 41	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. POF PAS	0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 0 1 DEF. 0 0 DEF. 1 1-19	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch offf differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input atarm delay SECURITY enable ON/STAND-BY key password	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 y SMIN MAX.0 = no1 = yes-99 sMIN MAX.0 = no1 = yes-99 999				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 33 34 35 35 35 35 35 37 37 38 39 N. 40 41 42	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i6 i7 PAR. POF PAS PA1	0 0 0 0 0 0 0 0 0 0 2.0 1 0 0 2.0 1 0 0 0 0 0 5 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 1 0 1 0	power-ons of regulator minimum time off and delay from power-on of regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input activation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 33 34 35 36 N. 37 37 38 39 N. 40 41 42 43	C2 C3 C4 PAR. A1 A2 A3 A7 A3 A7 A3 A7 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. i5 POF PAS PA1 PA2	0 0 0 0 0 0 0 0 0 0 0 2.0 1 0 2.0 1 0 0 0 0 0 5 7 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input ativation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 = no1 = yesMIN MAX.0 = disabled1 = alarm iA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact closed1 = with contact open0 999 s-99 999-99 999-99 999-99 999				or for serial in	terface (BMS)
	27 28 29 30 31 31 33 33 34 35 34 35 33 34 35 33 34 35 37 37 37 37 37 37 37 37 37 37 37 37 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. I5 i6 i7 PAR. PAR. PAR. PAR. PAR.	0 0 0 0 0 0 0 0 0 0 2.0 2.0 1 0 5 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm threshold temperature alarm delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input atarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password 2 nd level password EVLINK DATA-LOGGING	0 240 min 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP 0 999 min 0 999 s MIN MAX. 0 = disabled 1 = alarm iA 2 = alarm iA + regulator off 3 = switches device on/off 4 = modifies setpoint 0 = with contact closed 1 = with contact open 0 999 s MIN MAX. 0 = no 1 = yes -99 999 -99 999 -99 999				or for serial in	terface (BMS)
	27 28 29 N. 30 31 33 33 34 34 35 34 34 35 34 34 35 34 34 34 34 34 37 37 37 37 37 37 37 37 37 37 37 37 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A3 A7 A8 A11 A13 PAR. i5 i6 i6 i7 PAR. PAF. PAF. PAF. PAF. PAF.	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 0 2.0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm threshold temperature alarm delay fter silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input function multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 999MIN MAX.0 = free				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 33 34 33 34 35 36 N. 37 37 38 38 39 N. 40 41 42 43 N. 40 41 42 43 N.	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A1 A1 A13 PAR. i5 i6 i6 i7 PAR. PAR. PAF. PAS. PA1 PA2. PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input activation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for connectivity	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute maximum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = no0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 999MIN MAX.0 = free1 = forced for EVconnect or				or for serial in	terface (BMS)
	27 28 29 30 31 31 33 34 33 34 35 33 34 35 33 37 37 38 39 N. 40 41 42 43 N. 42 43 N.	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i6 i7 PAR. POF PAS PA1 PA2 PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 0 1 DEF. 0 0 0 DEF. 1 -19 426 824 DEF. 1	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input activation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 ^{s1} level password 2 nd level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for connectivity	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min0 999 min1 99 °C/°F0 = no1 = yesMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = vith contact closed1 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 990-99 990-99 991-99 992-99 993-99 994-99 995-99 995-99 995-99 995-99 995-99 995-99 995-99 995-99 995-99 995-91 995-92 995-93 995-94 995-94 995-95 995-95 995-95 995-95 995-96 995-97.				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 33 34 35 36 N. 37 37 38 39 N. 40 41 42 43 N. 44	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A3 A7 A8 A11 A13 PAR. i5 i6 i6 i7 PAR. i5 PAF PAS PA1 PA2 PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 1 0 EF. 0 0 0 0 EF. 1 -19 426 824 DEF. 1	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input ativation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for connectivity	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 = no1 = yesMIN MAX.0 = disabled1 = alarm iA2 = alarm iA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact closed1 = with contact closed1 = with contact open0 99999 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 999-90 995-90 995-90 995-91 995-92 995-92 995-92 995-93 995-94 995-95 995-95 995				or for serial in	terface (BMS)
	27 28 29 30 31 31 33 33 34 35 33 34 35 33 34 35 37 37 37 37 37 37 38 39 N. 40 41 42 43 N. 44	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. PAR. PAR. PA1 PA2 PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 1 0 0 0 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input atrivation multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for connectivity	0 240 min0 240 s0 = off1 = onMIN MAX. $-199 999 °C/°F$ 0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = disabled1 = alarm IA + regulator off 3 = switches device on/off 4 = modifies setpoint0 = with contact closed 1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 999-99 999-99 999-99 999-99 994-99 995-				or for serial in	terface (BMS)
	27 28 29 N. 30 31 33 33 34 35 34 35 36 N. 37 37 37 37 37 37 37 37 37 37 37 37 37	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. POF PAR. POF PAR. PA1 PA2 PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 1 0 0 0 0 5 7 0 0 0 0 0 5 7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 ^{rod} level password EVLINK DATA-LOGGING serial port configuration for connectivity	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 99999 999-99 995MIN MAX.0 = free1 = forced for EVconnect or EPoCA2-99 EPoCA local network address0 240 min				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 32 33 34 33 34 33 34 35 36 N. 37 37 38 38 39 N. 40 41 42 43 30 8 39 N. 40 41 42 43 N.	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A1 A1 A1 A1 A1 A8 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	0 0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 0 1 DEF. 0 0 0 DEF. 1 -19 426 824 DEF. 1 1 5 5 2.5	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm type temperature alarm delay temperature alarm delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password EVLINK DATA-LOGGING serial port configuration for connectivity datalogger sampling interval MODBUS	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact closed1 = with contact closed1 = with contact open0 999 sMIN MAX.0 = no1 = yes-99 999-99 999-99 999-99 999MIN MAX.0 = free1 = forced for EVconnect or EPoCA2-99 EPoCA local network address0 240 minMIN MAX.				or for serial in	terface (BMS)
	27 28 29 N. 30 31 31 33 34 33 33 34 33 33 34 33 33 34 33 37 37 38 38 39 N. 40 41 42 43 N. 44 45 N.	C2 C3 C4 PAR. A1 A2 A3 A7 A8 A1 A1 A13 PAR. i5 i6 i7 PAR. PAR. PAR. PAS PA1 PAS PA1 PAS PAR. bLE	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 1 DEF. 0 0 0 DEF. 1 -19 426 824 DEF. 1 1 5 DEF. 247	power-ons of regulator minimum time off and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after modifying setpoint and power-on additional alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 rd level password EVLINK DATA-LOGGING serial port configuration for connectivity datalogger sampling interval MODBUS MODBUS	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute maximum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 999 sMIN MAX.0 = no1 = with contact closed1 = forced for EVconnect or EPoCA2-99 = EPoCA local network address0 240 minMIN MAX.1 247				or for serial in	terface (BMS)
	27 28 29 30 31 31 32 33 34 33 34 33 34 35 33 34 33 37 37 38 37 37 38 39 N. 40 41 42 43 N. 40 41 42 43 N. 40 41 42 43 5 5 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	C2 C3 C4 PAR. A1 A2 A3 A7 A3 A7 A8 A11 A13 PAR. i5 i6 i7 PAR. i5 i6 i7 PAR. POF PAS PAI PAR. LA LA	0 0 0 0 0 0 0 0 0 0 0 0 2.0 0 2.0 1 0 0 2.0 0 1 0 5 5 5 1 1 -19 426 824 0 0 5 7 1 1 -19 426 824 0 0 5 7 3	power-ons of regulator minimum time of and delay from power-on of regulator minimum time on regulator regulator activity during regulation probe alarm ALARMS temperature alarm threshold temperature alarm threshold temperature alarm delay temperature alarm delay after silencing if the condition persists temperature alarm signal delay after silencing if the condition persists temperature alarm switch off differential enable alarm buzzer DIGITAL INPUTS multi-purpose input function multi-purpose input function multi-purpose input alarm delay SECURITY enable ON/STAND-BY key password 1 st level password 2 nd level password EVLINK DATA-LOGGING serial port configuration for connectivity MODBUS address MODBUS baud rate	0 240 min0 240 s0 = off1 = onMIN MAX199 999 °C/°F0 = disabled1 = absolute minimum2 = absolute maximum3 = minimum relative to SP4 = maximum relative to SP0 999 min0 = disabled1 = alarm IA2 = alarm IA + regulator off3 = switches device on/off4 = modifies setpoint0 = with contact closed1 = with contact closed1 = with contact closed1 = with contact open0 999 sMIN MAX.0 = free1 = forced for EVconnect or EPoCA2-99 = EPoCA local network address0 240 minMIN MAX.0 = 2400 baud				or for serial in	terface (BMS)



ALARMS 9

COD.	DESCRIPTION	RESET	TO CORRECT
Pr1	regulation probe alarm	automatic	- check PO
			 check probe integrity
			 check electrical connection
AL	temperature alarm	automatic	check A1, A2 and A3
iA	multi-purpose input alarm	automatic	check i5 and i6

10 TECHNICAL SPECIFICATIONS

Purpose of the control device		Operating control				
Construction of the control dev	ice	Incorporated control				
Container		Black, self-extinguishing				
Category of heat and fire resist	ance	D				
Measurements						
75.0 x 33.0 x 59.0 mm (2 15/ 2 5/16 in) with fixed screw terr	'16 x 1 5/16 x minal blocks	75.0 x 33.0 x 81.5 mm (2 15/16 x 1 5/16 x 3 3/16 in) with plug-in screw terminal blocks				
Mounting methods for the cont	rol device	To be fitted to a panel, snap-in brackets provided				
Degree of protection provi covering	ided by the	IP65 (front)				
Connection method						
Fixed screw terminal blocks for wires up to 2.5 mm ²	Plug-in screw for wires up to request)	terminal blocks p 2.5 mm² (on	Pico-Blade connector			
Maximum permitted length for connection cables						

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

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changes, at any time without prejudice to the essential functional and safety features of the equipment.



Every Control Group Every Control Group Every Control Group