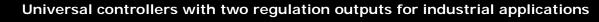
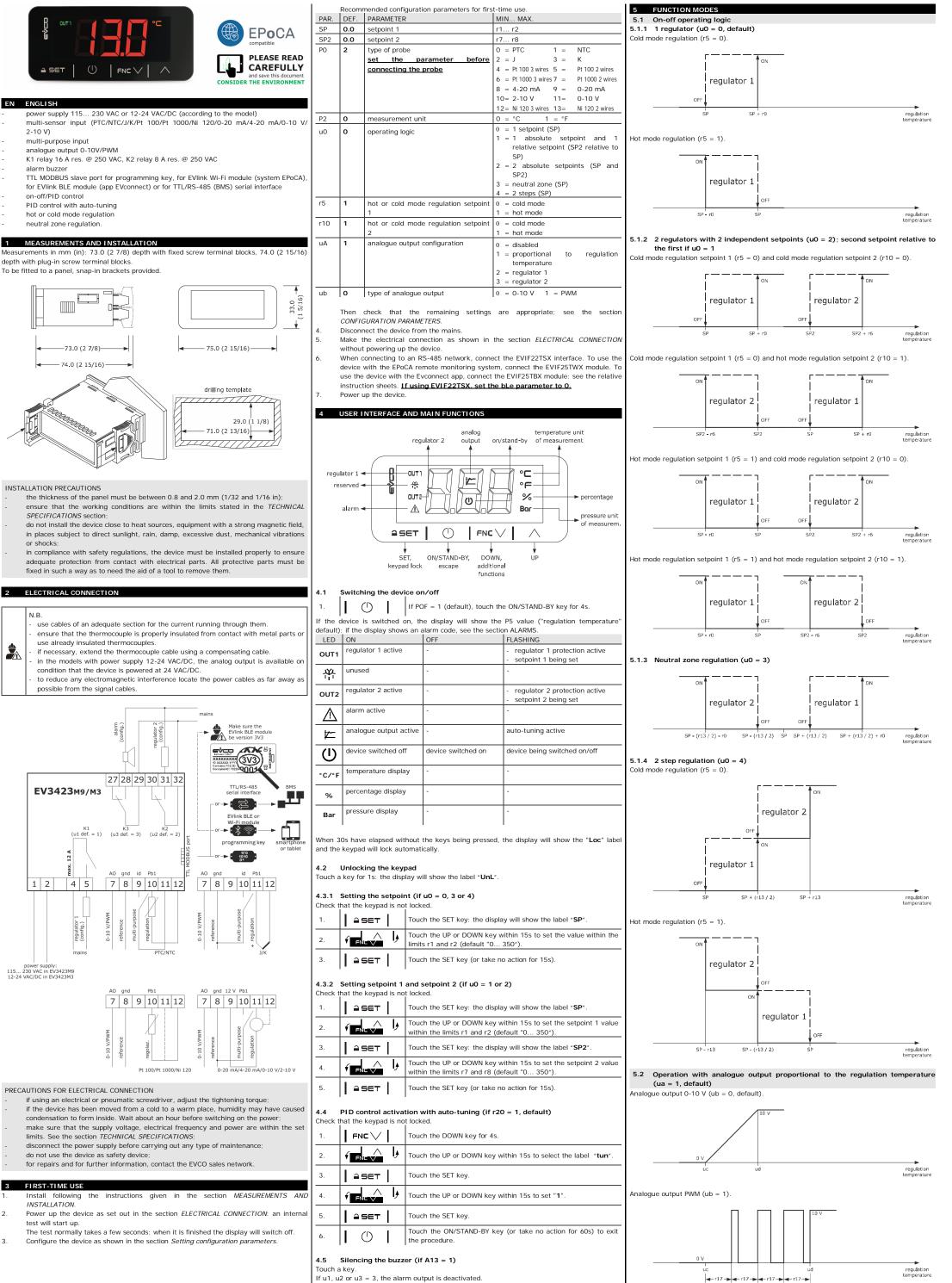
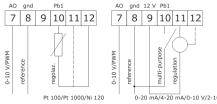
EV3423M Multi-sensor







115... 230 VAC in EV3423M9 12-24 VAC/DC in EV3423M3



- condensation to form inside. Wait about an hour before switching on the power
- limits. See the section TECHNICAL SPECIFICATIONS;
- disconnect the power supply before carrying out any type of maintenance

- INSTALLATION.
- test will start up

		Setting setpoint 1 hat the keypad is no	and setpoint 2 (if u0 = 1 or 2) t locked.
	1.	≙set	Touch the SET key: the display will show the label " $\ensuremath{SP}".$
	2.		Touch the UP or DOWN key within 15s to set the setpoint 1 val within the limits r1 and r2 (default "0 350").
	3.	≙ SET	Touch the SET key: the display will show the label "SP2".
	4.		Touch the UP or DOWN key within 15s to set the setpoint 2 vai within the limits r7 and r8 (default "0 350").
l	5.	≙set	Touch the SET key (or take no action for 15s).

EVCO S 6 6.1		IONAL	FUNC	TIONS g the value delivered by the analogue output					
			-	it locked.					
1.	FN	ic V	<u> </u>	Touch the DOWN key for 4s.					
2.	√ FN		ا	Touch the UP or DOWN key within 15s to select a label.					
	LAB.	DESCI		N ne value delivered by the analogue output					
	uM	1		e value delivered by the analogue output					
3.	≙ !	SET		Touch the SET key.					
4.	∳ FN		٩	Touch the UP or DOWN key to set the value (to select uM) .					
5.		SET	I	Touch the SET key.					
6.			1	Touch the ON/STAND-BY key (or take no action for 60s) to ex					
	1.	0	•	the procedure.					
5.2 Check				nber of start-ups of the relays it locked.					
1.	FN	ic 🗸		Touch the DOWN key for 4s.					
2.	√ FN		٨	Touch the UP or DOWN key within 15s to select a label.					
	LAB.	DESC							
	nS1 nS2	1		e number of start-ups of the K1 relay in thousands e number of start-ups of the K2 relay in thousands					
	nS3	displa	y of th	ne number of start-ups of the K23 relay in thousands					
3.		SET	<u> </u>	Touch the SET key.					
4.		\bigcirc	1	Touch the ON/STAND-BY key (or take no action for 60s) to e the procedure.					
5.3				nperature detected by the regulation probe					
			l is no	t locked. Tauch the DOWN key for 4s					
1.	⊢N _		<u> </u>	Touch the DOWN key for 4s.					
2.	V FN			Touch the UP or DOWN key within 15s to select a label.					
	Pb1			emperature					
3.	 	SET		Touch the SET key.					
4.		\bigcirc	1	Touch the ON/STAND-BY key (or take no action for 60s) to e the procedure.					
7	SETTIN								
	N.B.								
¥6	Chang			er P2 from °C to °F (and vice versa) causes the value of t unit of measurement is °C or °F to be changed automatically.					
* ©	Chang param								
	Chang param	eters w	hose	unit of measurement is °C or °F to be changed automatically. Touch the SET key for 4s: the display will show the label " PA ". Touch the SET key.					
1.	Chang param	neters w		unit of measurement is °C or °F to be changed automatically. Touch the SET key for 4s: the display will show the label " PA ". Touch the SET key.					
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	7	P3	0.0	minimum transducer calibration	-199 999 points
	8	P4	100	value maximum transducer calibration	-199 999 points
	9	P5	0	value value displayed	0 = regulation temperature
					1 = setpoint 1
	10 N.	P8 PAR.	5 DEF.	display refresh time DIGITAL OUTPUTS	0 250 s : 10 MIN MAX.
	11	uO	0	operating logic	 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 independent setpoints 3 = neutral zone regulation 4 = 2-step regulation
	12	u1	1	K1 output configuration	0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm
×	13	u2	2	K2 output configuration	0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm
	14	u3	3	K3 output configuration	0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm
	15	uA	1	analogue output configuration	0 = disabled 1 = proportional to regulation temperature 2 = regulator 1 2 = consultator 2
	16	ub	0	type of analogue output	3 = regulator 2 0 = 0-10 V 1 = PWM
	17	uc	0.0	regulation temperature for minimum analogue output value	-199 ud °C/°F/points
	18	ud	100	regulation temperature for maximum analogue output value	uc999 °C/°F/points
	N.	PAR.	DEF.	REGULATION	MIN MAX.
	19	rA	0	PID control configuration	0 = disabled 1 = regulator 1 2 = regulator 2 Effective only if u0 = 1 or 2
	20 21	r0 r1	2.0	setpoint 1 differential minimum setpoint 1	1 99 °C/°F if u0 = 3, cold mode regulation differential -199 °C/°F r2
	22 23	r2 r5	350 1	maximum setpoint 1 hot or cold mode regulation	r1 999 °C/°F 0 = cold mode
	24	r6	2.0	regulator 1 setpoint 2 differential	1 = hot mode 1 99 °C/°F if u0 = 3, hot mode regulation differential
	25	r7	0.0	minimum setpoint 2	-199 °C/°F r8
	26 27	r8 r9	350 0	maximum setpoint 2 block setpoint 2 adjustment	r7 999 °C/°F 0 = no 1 = yes
4	28	r10	1	hot or cold mode regulation regulator 2	0 = cold mode 1 = hot mode
	29	r11	0.0	digital input second setpoint 1	-199 999 °C/°F setpoint 1 + r11
	30	r12	0.0	digital input second setpoint 2	-199 999 °C/°F setpoint 2 + r12
	31	r13	5.0	neutral zone value	1 999 °C/°F if u0 = 4, two steps
	32 33	r14 r15	50 60	proportional band integral action time	1 999 °C/°F 0 999 s
	34	r16	30	derivative action time	0 999 s
	35	r17	180	PID regulator cycle time on PWM relay or analogue output	1 999 s
	36	r18	0	PID regulator minimum time on on PWM relay or analogue output	0 240 s
	37	r19	0	PID regulator minimum time off on PWM relay or analogue output	0 240 s
	38	r20	1	enable PID control with auto- tuning	0 = no 1 = yes
	39 N.	r21 PAR.	240 DEF.	auto-tuning maximum duration REGULATOR PROTECTION	2 240 min MIN MAX.
	40	C1	0	minimum time between two power-ons of regulator 1	0 240 min
	41	C2	0	minimum time off and delay from power-on of regulator 1	0 240 min
	42 43	C3 C4	0	minimum time on regulator 1 regulator 1 activity during	0 240 s 0 = off 1 = on
	44	C5	0	regulation probe alarm minimum time between two	0 240 min
	45	C6	0	power-ons of regulator 2 minimum time off and delay from	0 240 min
	46	C7	0	power-on of regulator 2 minimum time on regulator 2	0 240 s
	47	C8	0	regulator 2 activity during regulation probe alarm	0 = off 1 = on
	N. 48	PAR. A1	DEF. 0.0	ALARMS temperature 1 alarm threshold	MIN MAX. -199 999 °C/°F
	49	A2	0	temperature 1 alarm type	0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP 4 = maximum relative to SP
	50 51	A3 A4	0 0.0	temperature 1 alarm delay temperature 2 alarm threshold	0 999 min -199 199 °C/°F
	52	A5	0	temperature 2 alarm type	0 = disabled 1 = absolute minimum 2 = absolute maximum 3 = minimum relative to SP2
	53	A6	0	temperature 2 alarm delay	4 = maximum relative to SP2 0 999 min
	54	A7	0	temperature alarm delay after modifying setpoint and power-on	0 999 min
	55	A8	0	additional alarm signal delay after silencing if the condition	0 999 min
	56	A9	0	persists alarm output logic	0 = with alarm active
	57	A11	2.0	temperature alarm switch off	1 = with alarm not active 1 99 °C/°F
	58	A13	1	differential enable alarm buzzer	0 = no 1 = yes
	N. 59	PAR. i5	DEF.	DIGITAL INPUTS multi-purpose input function	MIN MAX. 0 = disabled
¢*					 alarm iA alarm iA + regulator 1 off + regulator 2 off alarm iA1 + regulator 1 off alarm iA2 + regulator 2 off switches device on/off modifies setpoint 1 and
	60	i6	0	multi-purpose input activation	setpoint 2 0 = with contact closed
	61	i7	0	multi-purpose input alarm delay	1 = with contact open 0 999 s

s r a		LI AK.									
					ole Ol	ON/STAND-BY key			MIN MAX. 0 = no 1 = yes		
s 🖉	63 64	PAS PA1	-19 426	1	sword level password				-99 999 -99 999		
emperature	65 N.	65 PA2 824 2				assword			-99 999 MIN MAX.		
	66	bLE	1	seria	al p	ort con	ifigurati	on for	0 = free		
				conn	nectiv	ity			1 = forced for EVconnec EPoCA		
with second lative to the									2-99 = EPoCA local network		
	67	rE0	15	-		r samplir	ng inter	val	0 240 min		
rs with 2 setpoints	N. 68	PAR. LA	DEF. 247	-	BUS BUS	address			MIN MAX. 1 247		
ation Id	69	Lb	3	MOD	BUS	baud rate	е		0 = 2,400 baud		
									1 = 4,800 baud 2 = 9,600 baud		
									3 = 19,200 baud even		
9	ALAR	Me	1					I			
				_							
COD.	<u> </u>	CRIPTIC		RESET			TO COR				
					dutomat				ck probe integrity		
AL1	tem	temperature 1 alarm				automat	tic		check electrical connection ck A1, A2 and A3 ck A4, A5 and A6 ck I5 and i6		
<u>AL2</u> iA		peratur			alarm automat n alarm automat		tic check A				
to iA1	1						tic	check i5	5 and i6		
iA2 tu0		ulator 2 p-tuning			arm	automat manual	tic	check is touch a			
= PWM	1	o-tuning			m	manual		- touch - check	n a key		
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nts 10	TECH	HNI CAL	SPECI	FICA	TION	IS					
	ose of the control device cruction of the control device				<u>```</u>			ting contr			
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Degree		prote					provid IP65 (i	ed			
coveri	ng			,		5 and					
		method v termi		ocks F	Plug-i	n screw	termina	I blocks	Pico-Blade connector		
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				n for co	· ·	ction cabl			. 10 - (20 0 %)		
Digital		ly: 10 n ts: 10 n							s: 10 m (32.8 ft) its 0-10 V: 10 m (32.8 ft)		
		gue outp		m (3.2	28 ft)				s: 10 m (32.8 ft).		
		empera nperatu							°C (from 23 to 131 °F) °C (from -13 to 158 °F)		
Opera	ting h	umidity	r				Relativ to 90%		ity without condensate from		
		atus of 1	the cont	trol de	vice		2.				
Compl RoHS		: /65/EC		1	WEEE	2012/19	9/EU		REACH (EC) Regula		
EMC 2	014/3	RO/FU							1907/2006		
	011/0							114/35/F			
Power								014/35/E			
115	230 \	VAC (+1					Hz), m	ax. 5 VA	in EV3 M9 W in EV3 M3.		
115 12-24 Earthir	230 \ VAC/ ng me	VAC (+1 DC (+1 ethods f	0% -15 or the c	5%), 50 control	0/60 I devi	Hz (±3 ⊢	Hz), m z), max None	ax. 5 VA (. 5 VA/3)	in EV3 M9		
115 12-24 Earthin Rated Over-v	230 \ VAC/ ng me impul /oltag	VAC (+1 DC (+1) ethods f lse-with le categ	0% -15 for the c istand v ory	i%), 50 control voltage	0/60 I devi	Hz (±3 ⊢	Hz), m lz), max None 2.5 KV	ax. 5 VA (. 5 VA/3)	in EV3 M9		
115 12-24 Earthin Rated Over Softwa	230 \ VAC/ ng me impul /oltag are cla	VAC (+1 DC (+1 ethods f lse-with le categ	0% -15 for the c istand v ory	i%), 50 control voltage	0/60 I devi	Hz (±3 ⊢	Hz), m z), max None 2.5 KV II A.	ax. 5 VA (. 5 VA/3	in EV3 M9		
115 12-24 Earthin Rated Over-v Softwa	230 \ VAC/ ng me impul /oltag are cla	VAC (+1 DC (+1 ethods f lse-with le categ	0% -15 for the c istand v ory	i%), 50 control voltage	0/60 I devi	Hz (±3 ⊢	Hz), m lz), max 2.5 KV II A. 1 for probes	ax. 5 VA . 5 VA/3	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, -		
= yes	230 V VAC/ ng me impul voltag are cla gue in	VAC (+1 DC (+1 ethods f lse-with le categ ass and puts	0% -15 or the c stand v ory structu	s%), 50 control voltage	0/60 I devi	Hz (±3 ⊢	Hz), m iz), max None 2.5 KV II A. 1 for probes mA, 0- probe)	ax. 5 VA (. 5 VA/3) PTC, NT(;, J or K -10 V or	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, a 2-10 V transducers (regula		
115 12-24 Earthin Rated Over Softwa	230 V VAC/ ng me impul voltag are cla gue in	VAC (+1 DC (+1) ethods f lse-with lse-with lse categ ass and puts	0% -15 for the c istand v ory	ent fie	0/60 I devi	Hz (±3 ⊢	Hz), m lz), max None 2.5 KV II A. 1 for probes mA, 0- probe) from -	ax. 5 VA (. 5 VA/3) PTC, NT(;, J or K -10 V or	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, -		
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= yes PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr	230 V VAC/ ng me impul voltag are cla gue in robes	VAC (+1 DC (+1) ethods f lse-with le categ ass and puts Mea Res Res Pt Mea	0% -15 for the c istand v ory structu asurem solution	ent fie cent fie cent fie cent fie cent fie	0/60 I devir e	Hz (±3 ⊢	Hz), max iz), max 2.5 KV II A. 1 for probes mA, 0- probe) from 0.1 °C from 0.1 °C	ax. 5 VA (. 5 VA/3 , PTC, NT(, J or K -10 V or 50 to 15((1 °F). 40 to 11((1 °F).	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, / 2-10 V transducers (regula 0 °C (from -58 to 302 °F)		
= yes = yes = on = 0 = 0 = 115 Rated Over-v Softwa Analog PTC pr NTC pr PTC pr NTC pr PT 1000 pr	230 V VAC// ng me impul voltag are cla gue in robes robes	VAC (+1 DC (+1) ethods f lse-with e categ ass and puts Mea Res Res Pt Mea Res	0% -15 or the c istand v ory structu asurem solution asurem solution asurem	ent fie ent fie ent fie ent fie ent fie :	o/60 I devia	Hz (±3 ⊢	Hz), max None 2.5 KV II A. 1 for probes mA, 0- probe) from 0.1 °C from 0.1 °C from 0.1 °C	ax. 5 VA (c. 5 VA/3) (c. 5 VA/3) (c. 5 VA/3) (c. 5 VA/3) (c. 7) (c. 7)	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F)		
= yes = yes = on 115 12-24 Earthit Rated Over Softwa Analog PTC pr NTC pr NTC pr NTC pr	230 V VAC/ ng me impul voltag gue in robes robes probes	VAC (+1 DC (+1) ethods f Ise-with le categ ass and puts Mea Res Res Res Res Res Res Res	0% -15 or the c stand v ory structu solution asurem solution asurem solution asurem	ent fie ent fie ent fie ent fie ent fie ent fie	0/60 1 devie 2 2 2 2 2 2 2 2 2 2 2 2 2	Hz (±3 ⊢	Hz), max None 2.5 KV II A. 1 for probes mA, 0- probes from 0.1 °C from 0.1 °C from 0.1 °C	ax. 5 VA/3 c. 5 VA/3 PTC, NTC J or K -10 V or - 50 to 15C (1 °F). 40 to 11C (1 °F). 100 to 65 (1 °F). 80 to 30C (1 °F).	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 0 °C (from -112 to 999 °F)		
= yes = yes = on 115 12-24 Earthit Rated Over Softwa Analog PTC pr NTC pr NTC pr NTC pr	230 \ VAC/ ng me impul voltag are cla gue in gue in robes probes probes	VAC (+1 DC (+1) ethods f Ise-with le categ ass and puts Res Res Res Res Res Res Res Res Res R	0% -15 or the c stand v ory structu solution asurem solution asurem solution asurem	6%), 56 control coltage re ent fie : ent fie : ent fie : ent fie : ent fie ent fie	0/60 1 devie 2 2 2 2 2 2 2 2 2 2 2 2 2	Hz (±3 ⊢	Hz), max None 2.5 KV II A. 1 for probes mA, 0- probes from 0.1 °C from 0.1 °C from 0.1 °C	ax. 5 VA/3 c. 5 VA/3 PTC, NTC ; J or K ·10 V or · 50 to 15C (1 °F). 40 to 11C (1 °F). 100 to 65 (1 °F). 80 to 300 (1 °F). • • • • • • • • • • • • •	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F)		
115 12-24 Earthin Rated Over Softwa Analog PTC pr NTC pr NTC pr 1000 p Ni 120 J t couple K t	230 \ VAC/ ng me impul voltag are cla gue in robes probes probes probes herm is	AC (+1 DC (+1) thods f ise-with le categ ass and puts Mea Res Res Res Res Res Res Res Res	0% -15 or the c istand v ory structu solution asurem solution asurem solution asurem solution asurem	6%), 50 control coltage rre ent fie : ent fien	O/60 I devii eld: eld: eld:	Hz (±3 ⊢	Hz), may None 2.5 KV II A. 1 for probes mA, 0. probe) from 0.1 °C from 0.1 °C from -0.1 °C from 0.1 °C from 0.1 °C (from 0.1 °C from 0.1 °C (from 0.1 °C)	ax. 5 VA (. 5 VA/3 , PTC, NTC ;, J or K -10 V or 50 to 150 (1 °F). 40 to 110 (1 °F). 80 to 300 (1 °F). • to 700 ° 1 °F). • to 999 °	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 0 °C (from -112 to 999 °F)		
115 12-24 Earthin Rated Over- Softwa Analog PTC pr NTC pr Pt 1000 On Ni 120 J t couple K on 0-20 r	230 \ VAC/ ng me impul voltag gare cla gue in robes robes) and orobes probe s therm s s nA, 4-	AC (+1 AC (+1) AC (0% -15 % or the c or the c stand v ory structu assurem solution assurem solution assurem solution assurem solution	ent fie ent	O/60 I devia	Hz (±3 ⊢ ce	Hz), m Hz), max None 2.5 KV II A. 1 for probes from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C	ax. 5 VA (. 5 VA/3 , PTC, NTC ;, J or K -10 V or 50 to 150 (1 °F). 40 to 110 (1 °F). 80 to 300 (1 °F). • to 700 ° 1 °F). • to 999 °	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F)		
	230 \ VAC/ ng me impul voltag gare cla gue in robes robes probes probes probes herm is therm s mA, 4-	AC (+1 AC (+1 DC (+1) thods f ise-with le categ ass and puts Mea Res Res Res Res Res Res Res Res	0% -15 % or the c or the c stand v ory structu assurem solution assurem solution assurem solution assurem solution	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i ent fie i ent fie i i ent fie i i ent fie i i ent fie i i ent fie i i ent fie i i ent fie i i i ent fie i i i ent fie i i i ent fie i i i ent fie i i i ent fie i i i ent fie i i i ent fie i i i i ent fie i i i i ent fie i i i i i ent fie i i i i i i i i i i i i i i i i i i	0/60 1 devi 2 2 2 2 2 2 2 2 2 2 2 2 2	Hz (±3 F ce	Hz), max None 2.5 KV II A. 1 for probes from - 0.1 °C from - 0.1 °C from - 0.1 °C (can be	ax. 5 VA/3 c. 5 VA/3 PTC, NTG J or K -10 V or - 50 to 150 (1 °F). 100 to 65 (1 °F). 100 to 65 (1 °F). 100 to 700 ° 1 °F). to 700 ° 1 °F). c configur	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F)		
115 12-24 Earthin Rated Over Softwa analog PTC pr NTC	230 \ VAC/ org me impul voltag gare cla gue in robes robes probes probes probes therm is herm is nA, 4. lucers input	AC (+1 AC (+1) DC (+1) thods f fise-with the categ ass and puts Mea Res Res Res Res Res Res Res Res	0% -15 % or the c or the c stand v ory structu assurem solution assurem solution assurem solution assurem solution	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i ent fie	0/60 I devi devi eld: eld: eld: eld: eld: eld: eld: fld:	Hz (±3 ⊢ ce	Hz), may None 2.5 KV II A. 1 for probes mA, 0. probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from 0 1 °C (can be (mutti-	ax. 5 VA (x. 5 VA/3) PTC, NT(y, J or K -10 V or - 50 to 15((1 °F). 40 to 11((1 °F). 80 to 300 (1 °F). 100 to 65 (1 °F). to 700 ° 1 °F). to 700 ° 1 °F). - - - - - - - - - - - - -	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 50 °C (from -148 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) ed , not available if the analo Pt 1000 or NI 120 3 wires		
115 12-24 Earthin Rated Over Softwa = yes PTC pr NTC pr NTC pr Pt 100 on 1000 pr Ni 120 J t couple K t couple Itransd Digital Dry commun	230 \ VAC// ng me impul voltag gue in robes robes probes probes therm is mA, 44 ucers input	AC (+1 AC (+1) thods f fise-with le categ ass and puts Mea Res Res Res Res Res Res Res Res	0% -15 % or the c or the c stand v ory structu assurem solution assurem solution assurem solution assurem solution	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i und 1	0/60 I devi eld: eld: eld: eld: eld: eld: 22-10 1 1 dry input Cont: Prote	Hz (±3 ⊢ ce	Hz), m IZ, max None 2.5 KV II A. 1 for probes from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 1 °C (: can be (multi-	ax. 5 VA/3 c. 5 VA/3 PTC, NTG j, J or K -10 V or - 50 to 150 (1 °F). 100 to 65 (1 °F). 100 to 65 (1 °F). 100 to 300 (1 °F). - to 999 ° 1 °F). - - - - - - - - - - - - -	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 50 °C (from -148 to 999 °F) 0 °C (from 32 to 999 °F) C (from 32 to 999 °F) ed		
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115 12-24 Earthin Rated Over Softwa Softwa PTC pr PTC pr NTC pr PTC on 1000 pr NTC pr NTC pr Pt 100 NTC pr NTC pr NTC pr Digital Dry communitive to SP titive to SP	230 \ VAC// ng me impul voltag are cla gue in robes robes probes probes probes probes herm rs mA, 4- lucers input	AC (+1 DC (+1 thods f ise-with le categ ass and puts Meie Res Res Res Res Res Res Res Re	0% -15 for the constant of the	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie ent fie	0/60 I devii eld: eld: eld: eld: eld: eld: eld: eld:	<pre>Hz (±3 ⊢ ce // ce // contact // conta</pre>	Hz), max IZ,5 KV II A. 1 for probes mA, 0. probes from - 0.1 °C from - 0.1 °C from 0.1 °C (multi- from 0 1 °C (' can be r PWM me mode they ar	ax. 5 VA/3 c. 5 VA/3 PTC, NTG J or K 10 V or 50 to 150 (1 °F). 40 to 110 (1 °F). 80 to 300 (1 °F). 100 to 66 (1 °F). 100 to 66 (1 °F). 100 to 700 ° 1 °F). to 700 ° 1 °F). c configur purpose) r Pt 100, signal. els with p re powere	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -148 to 999 °F) 0 °C (from -112 to 999 °F) 0 °C (from 32 to 999 °F) C (from 32 to 999 °F) c (from 32 to 999 °F) ed 1, not available if the analo Pt 1000 or NI 120 3 wires 3.3 V, 1 mA none.		
115 12-24 Earthin Rated Over Softwa Analog PTC pr NTC pr NTC pr Pt 100 Image: Note of the second	230 \ VAC// ng me impul voltag gue in robes probes probes probes probes probes in and probes probes in and probes	AC (+1 AC (+1 DC (+1) thods f ise-with le categ ass and puts Meie Res Res Res Res Res Res Res Re	0% -15 % or the c or the c stand v ory structu assurem solution assurem solution assurem solution assurem solution	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i ent fie i policab	0/60 I devii eld: eld: eld: eld: eld: eld: eld: eld:	<pre>Hz (±3 ⊢ ce // ce // contact // conta</pre>	Hz), m Hz), max None 2.5 KW II A. 1 for probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from - 0.1 °C (in from 0 1 °C (i can be can b	ax. 5 VA/3 c. 5 VA/3 PTC, NTG J or K 10 V or 50 to 150 (1 °F). 40 to 110 (1 °F). 80 to 300 (1 °F). 100 to 65 (1 °F). 100 to 65 (1 °F). 100 to 700 ° 1 °F). to 700 ° 1 °F). configur purpose) r Pt 100, signal. els with prepowered m	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 0 °C (from -148 to 999 °F) C (from 32 to 999 °F) (from 32 to 999 °F) c (from 32 to 999 °F) (from 32 to 999 °F) (from 32 to 990 °F) (from 32 to 99		
II15 I2-24 Earthi Rated Over Softwa Softwa PTC pr PTC pr NTC pr Dry co Transd Digital Dry co Transd Digital Or or transd Or or transd Digital Or or transd Or or trans	230 \ VAC// ng me impul voltag gare cla gue in robes robes robes nobes probe herm rs herm rs herm nA, 4- ucers input ucers input	AC (+1 AC (+1 DC (+1) thods f fise-with le categ ass and puts Mei Res Mei Res Pt Mei Res S Mei S Me	0% -15 for the constant of the	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i ent e ent fie i ent e ent fie i ent fie i ent fie i	0/60 I devii eld: eld: eld: eld: eld: eld: eld: eld:	Hz (±3 F ce v v v v v v v v v v v v v v v v v v	Hz), m Hz), max None 2.5 KV II A. 1 for probes mA, 0. 1 for probes from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0. 1 °C (1 can be can be r PVMM they ary 1 K0P 0.01 1 C	ax. 5 VA/3 c. 5 VA/3 PTC, NTG j, J or K -10 V or - 50 to 150 (1 °F). 100 to 65 (1 °F). 100 to 65 (1 °F). 100 to 300 (1 °F). to 999 ° 1 °F). - configur purpose) r Pt 100, signal. els with p e powere nm V ical relay	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -148 to 999 °F) D °C (from -112 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) ed , not available if the analo Pt 1000 or NI 120 3 wires 3.3 V, 1 mA none. power supply 12-24 VAC/DC. ed (K1 relay, K2 and K3 relay		
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1115 12-24 Earthin Rated Over- Softwa analog PTC pr	230 \ VAC/ mg me impul voltag are cla gue in robes probes	AC (+1 AC (+1) The catego ass and puts Mean Reserve as and puts Reserve as and Reserve	0% -15 % or the c stand v ory structu asurem solution asure asure asure solution asure a	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i ent fie i e i ent fie i e i ent fie i e i ent fie i e i ent fie i e i e ent fie i e i e i e ent fie i e i e i e i e i e i e i e i e i e	0/60 I devii eld: eld: eld: eld: eld: eld: eld: eld:	Hz (±3 F ce v v v v v v v v v v v v v v v v v v	Hz), mi Hz), mi Iz), max None 2.5 KW II A. 1 for probes mA, 0, probes from - 0.1 °C from 0, 1 °C (rom	ax. 5 VA (x. 5 VA/3) PTC, NTG (x. J or K -10 V or - 50 to 150 (1°F). 100 to 65 (1°F). 100 to 65 (1°F). 100 to 65 (1°F). 100 to 65 (1°F). 10 700° 1°F). to 700° 1°F). to 7909° 1°F). to 7909° 1°F). configur purpose) r Pt 100, signal. els with p re powere inm V vical relay, 3 & A res. 1	in EV3 M9 W in EV3 M3. W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -148 to 999 °F) 0 °C (from -148 to 999 °F) C (from 32 to		
1115 12-24 Earthin Rated Over-s Softwa = yes Analog PTC pr PTC pr NTC pr Pt 1000 = on NI 120 J tt couple K tt couple NTC pr Interpretation Digital Dry cc Imum Analog Signal 0-10 V Digital Mum K1 rela innum K1 rela intive to SP2 Signal 0-10 V Digital Mative to SP2 Type 1 Additic action: Displa Alarm	230 \ VAC/ ng me impul voltag are cla gue in robes probes	AC (+1 AC (+1) C (+1) AC (+	0% -15 for the c or the c stand v ory structu asurem solution asurem solution asurem solution asurem solution asurem solution asurem colution asurem solution asurem asurem solution asurem solution asurem asurem solution asure solution asure asu	ent fie ent fie ent fie ent fie ent fie ent fie ent fie ent fie i / and 2 / pplicab	o/60 I devii eld: eld: eld: eld: eld: eld: eld: eld:	Hz (±3 F ce	Hz), mi Iz), max None 2.5 KV II A. 1 for probes mA, 0, probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from - 0.1 °C from 0 1 °C (: can be constant from 0 1 °C constant from 0	ax. 5 VA ax. 5 VA/3 FTC, NTG J or K 10 V or 50 to 150 (1 °F). 100 to 65 (1 °F). 100 to 65 (1 °F). 100 to 300 (1 °F). to 700 °1 1 °F)	in EV3 M9 W in EV3 M3. W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -148 to 999 °F) 0 °C (from -148 to 999 °F) C (from 32 to		
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I115 12-24 Earthin Rated Over Softwa PTC pr PTC pr NTC pr PTC pr PTC pr NTC pr Pt 100 on NTC pr couple K transd Digital Dry co mum inum K1 rek inum K2 rek K3 rek ive to SP2 Additic action Displa Alarm Comm tive to 2 off This do	230 \ VAC/ mg me impul voltag are cla gue in robes probes	AC (+1 AC (+1) C (+1) AC (+	0% -15 5 or the c stand v ory structu asurem solution asurem solution asurem solution asurem solution asurem colution asurem colution asurem solution asurem solution asurem solution asurem solution asurem colution asurem solution asurem solution asurem solution asurem solution asurem colution asurem solution asure solution as	e dispot et dispot itions c	0/60 I devii devi dev	Hz (±3) + ce 	Hz), m Iz), max None 2.5 KW II A 1 for probes mA, 0, probe) probe) from 0.1 °C from 0.1 °C from 0.1 °C from 0.1 °C from 0 1 °C (1 from 0 1 °C (1 from 0 1 °C (from 0 1 C C from 0 1 C C from 0 1 °C (from 0 1 C C from 0 fr	ax. 5 VA/3 (. 5 VA/3 . 5 VA/3 PTC, NTG ., J or K .10 V or	in EV3 M9 W in EV3 M3. W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, - 2-10 V transducers (regula D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -148 to 999 °F) D °C (from -112 to 999 °F) C (from 32 to 999 °F) d 1000 or NI 120 3 wires 3.3 V, 1 mA none. power supply 12-24 VAC/DC ad at 24 VAC/DC. C (K1 relay, K2 and K3 relay s. @ 250 VAC @ 250 VAC @ 250 VAC @ 250 VAC C 250		
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a yes a yes a yes a yes b a b a b a b a b a b a b a b a b a b a	230 \ VAC/ VAC/ impul voltag are cla gue in robes robes pr	AC (+1 AC (+1 DC (+1) The categ ass and puts Meia Res Res Res Res Res Res Res Res	0% -15 istand v or the c stand v ory structu asurem solution and tolution and ele tolution and ele tolution and ele tolution asurem solution asure solution asure solution asure solution asure solution asure solution solution solution solution solution solution solution solution solutio	e dispore e dispore e dispore e dispore e dispore e dispore e e e dispore e e e e e e e e e e e e e e e e e e	0/60 I devii 2 I devii 1 I devii 2 I devii 1 I devii 2 I devii 1 I	Hz (±3 F ce	Hz), max Iz), max None 2.5 KW II A 1 for probes from 0.1 °C from 0.1 °C from 0.1 °C from -0.1 °C from 0.1 °C from 0.1 °C (multi- rec (- from 0.1 °C grad 1 1 °C (- SPDT SPDT Type C. LED c Built- 1 1 TTL key, EVcor	ax. 5 VA/3 (. 5 VA/3 . 5 VA/3 PTC, NTG . J or K .10 V or	in EV3 M9 W in EV3 M3. C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regula 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -148 to 999 °F) 0 °C (from -112 to 999 °F) 0 °C (from 32 to 999 °F) C (from 32 to 999 °F) 0 °C (from 32 to 999 °F) 0 °C (from 32 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) 0 °C (from 32 to 990 °F) 0 °C (from 32 to 990 °		
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8 CONFIGURATION PARAMETERS

	N.	PAR.	DEF.	SETPOINT	MIN MAX.	2			
₽≣	1	SP	0.0	setpoint	r1 r2		53	A6	c
	2	SP2	0.0	setpoint 2	r7 r8 not available if u0 = 0, 3 or 4		54	A7	C
Q	N.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.		55	A8	c
	3	CA1	0.0	regulation probe offset	-25 25 °C/°F				
	4 PO		2	type of probe	0 = PTC 1 = NTC 2 = J 3 = K 4 = Pt 100 3 wires		56	A9	C
					4 = P(100.3 wires) 5 = Pt 100.2 wires 6 = Pt 1000.3 wires		57	A11	2.
					7 = Pt 1000 2 wires		58	A13	1
					8 = 4-20 mA 9 = 0-20 mA		Ν.	PAR.	DE
					10= 2-10 V 11= 0-10 V 12= Ni 120 3 wires 13= Ni 120 2 wires		59	i5	C
	5	P1	0	enable decimal point °C	0 = no 1 = yes if P0 = 2 or 3, not effective if P0 = 8 11, position of decimal point: 0 = none 1 = tens digit	Ĩ			
	6	P2	0	measurement unit	$0 = {}^{\circ}C \qquad 1 = {}^{\circ}F$ $2 = \% \qquad 3 = bar$ $4 = none$		60	i6	
					options 2 4 effective only on			-	
					LEDs and if $PO = 811$		61	i7	C

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