EV3412 Multi-sensor

EN ENGLISH

2-10 V)

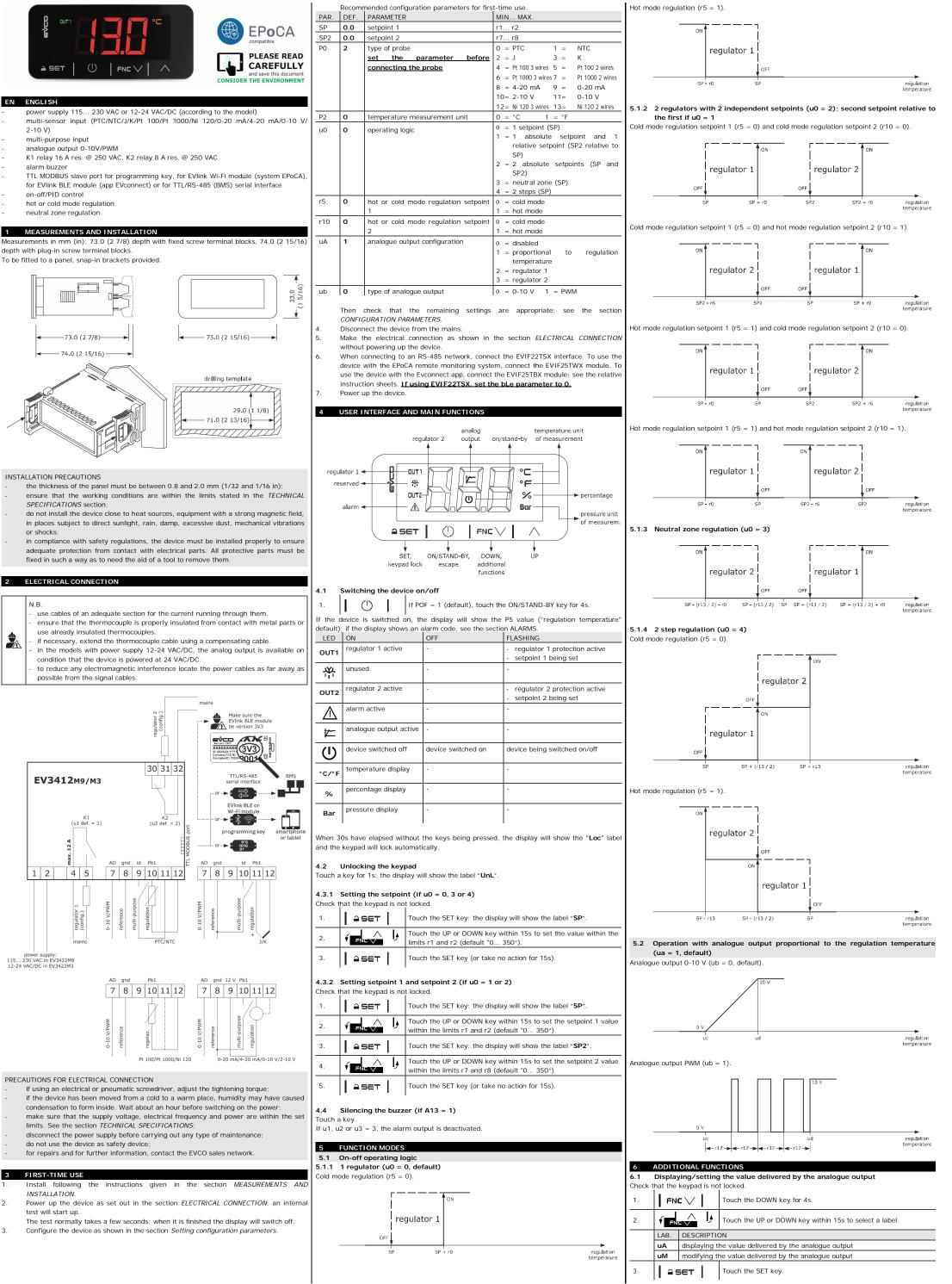
or shocks;

N.B.



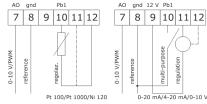
Universal controllers with two regulation outputs for industrial applications





115... 12-24

1 2



PRECAUTIONS FOR FLECTRICAL CONNECTION

- if using an electrical or pneumatic screwdriver, adjust the tightening torque;
- 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;
- do not use the device as safety device:

3 FIRST-TIME USE

- INSTALLATION
- Power up the device as set out in the section ELECTRICAL CONNECTION: an interna test will start up.

Configure the device as shown in the section Setting configuration parameters.

EVCO S.p.A. EV3	3412M Instruction sheet ver.	2.0 Code 1043412ME203	Page 2 of 2 PT 52/

2/20 FILL Touch the UP or DOWN key to set the value (to select **uM**). Touch the SET key. 5. ≙ SET Touch the ON/STAND-BY key (or take no action for 60s) to exit \bigcirc 6. the procedure. 6.2 Displaying the number of start-ups of the relays Check that the keypad is not locked. 1. FNC 🗸 Touch the DOWN key for 4s. 2. Touch the UP or DOWN key within 15s to select a label. LAB. DESCRIPTION nS1 display of the number of start-ups of the K1 relay in thousands nS2 display of the number of start-ups of the K2 relay in thousands ≙SET 3. Touch the SET key. Touch the ON/STAND-BY key (or take no action for 60s) to exit \bigcirc 4. the procedure. 6.3 Displaying the temperature detected by the regulation probe that the keypad is not locked. Check FNC 🗸 Touch the DOWN key for 4s. 1. FILE Touch the UP or DOWN key within 15s to select a label. 2. LAB. DESCRIPTION Pb1 regulation temperature ≙SET 3. Touch the SET key. Touch the ON/STAND-BY key (or take no action for 60s) to exit 4. \bigcirc the procedure. SETTINGS 7 7.1 Setting configuration parameters

N.B. Ö_o Changing parameter P2 from °C to °F (and vice versa) causes the value of the parameters whose unit of measurement is °C or °F to be changed automatically. 1. ≙ SET Touch the SET key for 4s: the display will show the label "PA". 2. ≙ SET Touch the SET key. Touch the UP or DOWN key within 15s to set the PAS value ۰ 3. (default "-19"). Touch the SET key (or take no action for 15s): the display will ≙ SET 4. show the label "SP". Touch the UP or DOWN key to select a parameter. 5. 6. ≙ SET Touch the SET key. 7. Touch the UP or DOWN key within 15s to set the value. 8. ≙SET Touch the SET key (or take no action for 15s). Touch the SET key for 4s (or take no action for 60s) to exit the 9. ≙ SET procedure.

7.2 Restoring factory settings (default) and saving customised settings

0 0	PAR	AMETERS.	actory settings are appropriate; see the section CONFIGURATION ed settings overwrites the factory settings.
1.	 ≙ :	5€⊤	Touch the SET key for 4s: the display will show the label "PA".
2.	≙ :	эет	Touch the SET key.
3.	∮ FN		Touch the UP or DOWN key within 15s to set the value.
-	VAL.	DESCRIPTION	ON
	149	value for re	storing the factory information (default)
	161	value for sa	ving customised settings
4.	= :	∋∈⊤	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.	 ≙ 9	эет	Touch the SET key.
6.	√ FN		Touch the UP or DOWN key within 15s to set "4".
7.	- 9	∋∈⊤	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.	Discor	nect the dev	ice from the power supply.
9.	1 - 9	эет	Touch the SET key for 2s before action 6 to exit the procedure beforehand.
8	CONFI	GURATION	PARAMETERS

											4 = maximum relative to SP2	Communications ports	1 TTL MODBUS slave port for programming
	Ν.	PAR.	DEF.	SETPOINT	MIN MAX.		50	A6	0	temperature 2 alarm delay	0 999 min		key, for EVlink Wi-Fi module (system
∩≡	1	SP	0.0	setpoint	r1 r2		51	A7	0	temperature alarm delay after	0 999 min		EPoCA), for EVlink BLE module (app
₽	2	SP2	0.0	setpoint 2	r7 r8					modifying setpoint and power-on			EVconnect) or for serial interface (BMS)
					not available if u0 = 0, 3 or 4		52	A8	0	additional alarm signal delay	0 999 min		
	Ν.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.					after silencing if the condition persists			
	3	CA1	0.0	regulation probe offset	-25 25 °C/°F		53	A9	0	alarm output logic	0 = with alarm active		
	4	PO	2	type of probe	0 = PTC $1 = NTC$			~~	Ŭ	alarm output logic	1 = with alarm not active		
					2 = J 3 = K		54	A11	2.0	temperature alarm switch off	1 99 °C/°F		
					4 = Pt 100 3 wires 5 = Pt 100 2 wires					differential			
					6 = Pt 100 2 wires		55	A13	1	enable alarm buzzer	0 = no 1 = yes		
					7 = Pt 1000 2 wires		N. I	PAR.	DEF.	DIGITAL INPUTS	MIN MAX.		
					8 = 4-20 mA 9 = 0-20 mA		56	i5	0	multi-purpose input function	0 = disabled		
					10= 2-10 V 11= 0-10 V						1 = alarm iA		
					12= Ni 120 3 wires						2 = alarm iA + regulator 1		
					13= Ni 120 2 wires						off + regulator 2 off		
	5	P1	0	enable decimal point °C	0 = no 1 = yes						3 = alarm iA1 + regulator 1		
					if P0 = 2 or 3, not effective						off 4 = alarm iA2 + regulator 2		
)					if PO = 8 11, position of	S //					4 = alarm IA2 + regulator 2 off		
					decimal point:						5 = switches device on/off		
					0 = none						6 = modifies setpoint 1 and		
					1 = tens digit						setpoint 2		
	6	P2	0	measurement unit	$0 = ^{\circ}C \qquad 1 = ^{\circ}F$ $2 = \% \qquad 3 = bar$		57	i6	0	multi-purpose input activation	0 = with contact closed		
					2 = % 3 = bar 4 = none						1 = with contact open		
					options 2 4 effective only on		58	i7	0	multi-purpose input alarm delay	0 999 s		
					LEDs and if P0 = 8 11		N. 1	PAR.	DEF.	SECURITY	MIN MAX.	N.B. The device must be disposed of accordi	
	7	P3	0.0	minimum transducer calibration	-199 999 points	~	59	POF	1	enable ON/STAND-BY key	0 = no 1 = yes	of electrical and electronic equipment.	ng to local regulations governing the collection
				value		$\overline{\heartsuit}$		PAS	-19	password	-99 999	of cleandar and clean onic equipment.	
	8	P4	100	maximum transducer calibration	-199 999 points	-		PA1	426	1 st level password	-99 999	This document and the solutions contained therei	in are the intellectual property of EVCO and thus
				value				PA2	824	2 nd level password	-99 999	protected by the Italian Intellectual Property Rights	
	9	P5	0	value displayed	0 = regulation temperature				DEF.	EVLINK DATA-LOGGING	MIN MAX.	full or partial reproduction and disclosure of the cor	
					1 = setpoint 1		63	bLE	1	serial port configuration for		The customer (manufacturer, installer or end-user) a	assumes all responsibility for the configuration of the
	10	P8	5	display refresh time	0 250 s : 10					connectivity	1 = forced for EVconnect or	device.	
						60					EPoCA	EVCO accepts no liability for any possible errors in	
											2-99 = EPoCA local network	changes, at any time without prejudice to the essent	al functional and safety features of the equipment.
						1	1 1				address		

64 rE0 **15** datalogger sampling interval

 N.
 PAR.
 DEF.
 MODBUS

 65
 LA
 247
 MODBUS address

0... 240 min

MIN... MAX

1... 247

	Ν.	PAR.	DEF.	DIGITAL OUTPUTS	MIN MAX.
	11	uO	0	operating logic	0 = 1 regulator
		uu	U	operating logic	-
					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
	.~	- u.		itri output sonngaration	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	uA	1	analogue output configuration	0 = disabled
	14			analogue output configuration	1 = proportional to
					regulation temperature
					2 = regulator 1
					3 = regulator 2
	15	ub	0	type of analogue output	0 = 0-10 V 1 = PWM
	16	uc	0.0	regulation temperature for	-199 ud °C/°F/points
				minimum analogue output value	
	17	ud	100	regulation temperature for	uc 999 °C/°F/points
				maximum analogue output value	
	Ν.	PAR.	DEF.	REGULATION	MIN MAX.
	18	rA	0	PID control configuration	0 = disabled
				, , , , , , , , , , , , , , , , , , ,	1 = regulator 1
					2 = regulator 2
	I				-
	<u> </u>			<u> </u>	Effective only if u0 = 1 or 2
	19	r0	2.0	setpoint 1 differential	1 99 °C/°F
	I				if u0 = 3, cold mode
					regulation differential
		-1	0.5	minimumtint 4	
	20	r1	0.0	minimum setpoint 1	-199 °C/°F r2
	21	r2	350	maximum setpoint 1	r1 999 °C/°F
	22	r5	0	hot or cold mode regulation	0 = cold mode
	22	15	Ŭ	regulator 1	1 = hot mode
				~	
	23	r6	2.0	setpoint 2 differential	1 99 °C/°F
					if u0 = 3, hot mode
					regulation differential
	24	r7	0.0	minimum setpoint 2	-199 °C/°F r8
- 1	25	r8	350	maximum setpoint 2	r7 999 °C/°F
	26	r9	0	block setpoint 2 adjustment	0 = no 1 = yes
	27	r10	0	hot or cold mode regulation	0 = cold mode
				regulator 2	1 = hot mode
	28	r11	0.0	digital input second setpoint 1	-199 999 °C/°F
					setpoint 1 + r11
	29	r12	0.0	digital input second setpoint 2	-199 999 °C/°F
				3	setpoint 2 + r12
		1 1 0			4 000 00/05
	30	r13	5.0	neutral zone value	1 999 °C/°F
	30	r13	5.0	neutral zone value	1 999 °C/°F if u0 = 4, two steps
	30 31	r13 r14	5.0	neutral zone value proportional band	
	31	r14	50	proportional band	if u0 = 4, two steps 1 999 °C/°F
	31 32	r14 r15	50 60	proportional band integral action time	if u0 = 4, two steps 1 999 °C/°F 0 999 s
	31 32 33	r14 r15 r16	50 60 30	proportional band integral action time derivative action time	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s
	31 32	r14 r15	50 60	proportional band integral action time	if u0 = 4, two steps 1 999 °C/°F 0 999 s
	31 32 33	r14 r15 r16	50 60 30	proportional band integral action time derivative action time	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s
	31 32 33 34	r14 r15 r16 r17	50 60 30 180	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s
	31 32 33	r14 r15 r16	50 60 30	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s
	31 32 33 34 35	r14 r15 r16 r17 r18	50 60 30 180 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output	If u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s
	31 32 33 34	r14 r15 r16 r17	50 60 30 180	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s
	31 32 33 34 35	r14 r15 r16 r17 r18	50 60 30 180 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output	If u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s
	31 32 33 34 35	r14 r15 r16 r17 r18	50 60 30 180 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off	If u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s
	31 32 33 34 35 36 N.	r14 r15 r16 r17 r18 r19 PAR.	50 60 30 180 0 0 DEF.	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX.
	31 32 33 34 35 36	r14 r15 r16 r17 r18 r19	50 60 30 180 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s
	31 32 33 34 35 36 N. 37	r14 r15 r16 r17 r18 r19 PAR. C1	50 60 30 180 0 0 DEF. 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min
	31 32 33 34 35 36 N.	r14 r15 r16 r17 r18 r19 PAR.	50 60 30 180 0 0 DEF.	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX.
	31 32 33 34 35 36 N. 37	r14 r15 r16 r17 r18 r19 PAR. C1	50 60 30 180 0 0 DEF. 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min
	31 32 33 34 35 36 N. 37	r14 r15 r16 r17 r18 r19 PAR. C1	50 60 30 180 0 0 DEF. 0	proportional band integral action time derivative action time PID regulator cycle time on PVMM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-on of regulator 1	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min
	31 32 33 34 35 36 N. 37 38 39	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3	50 60 30 180 0 0 DEF. 0 0	proportional band integral action time derivative action time PID regulator cycle time on PVWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-on of regulator 1	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s
	31 32 33 34 35 36 N. 37 38	r14 r15 r16 r17 r18 r19 PAR. C1 C2	50 60 30 180 0 0 DEF. 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 minimum time on regulator 1 regulator 1 activity during	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min
	31 32 33 34 35 36 N. 37 38 39 40	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C2 C3 C4	50 60 30 180 0 0 DEF. 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s 0 = off 1 = on
	31 32 33 34 35 36 N. 37 38 39	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3	50 60 30 180 0 0 DEF. 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time ofn on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-on of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s
	31 32 33 34 35 36 N. 37 38 39 40	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C2 C3 C4	50 60 30 180 0 0 DEF. 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s 0 = off 1 = on
	31 32 33 34 35 36 N. 37 38 39 40	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C2 C3 C4	50 60 30 180 0 0 DEF. 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time ofn on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-on of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s 0 = off 1 = on
	31 32 33 34 35 36 N. 37 38 39 40 41	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C2 C3 C4 C5	50 60 30 180 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PVMM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 s 0 = off 1 = on 0 240 min
	31 32 33 34 35 36 N. 37 38 39 40 41 42	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6	50 60 30 180 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PVMM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time of f and delay from power-on of regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s 0 240 min
	31 32 33 34 35 36 N. 37 37 38 39 40 41 41 42 43	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6 C7	50 60 30 180 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time on regulator 2	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min
	31 32 33 34 35 36 N. 37 38 39 40 41 42	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6	50 60 30 180 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PVMM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time of f and delay from power-on of regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s 0 240 min
	31 32 33 34 35 36 N. 37 37 38 39 40 41 41 42 43	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6 C7	50 60 30 180 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time on regulator 2	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 0 240 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min
	31 32 33 34 35 36 N. 37 37 38 39 40 41 41 42 43	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C2 C3 C4 C5 C6 C6 C7 C8	50 60 30 180 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time on regulator 2 minimum time on regulator 2 minimum time on regulator 2	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min
	31 32 33 34 35 36 N. 37 38 39 40 41 42 43 44 N.	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6 C6 C7 C8 PAR.	50 60 30 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-ons of regulator 1 regulator 1 activity during regulation probe alarm minimum time off and delay from power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time off and delay from power-on of regulator 2 minimum time off and delay from power-on of regulator 2 minimum time on regulator 1 Mathematical activity during regulation probe alarm	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 1 999 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 = off 1 = on 0 240 s 0 = off 1 = on MIN MAX.
	31 32 33 34 35 36 N. 37 38 39 40 41 42 43 44 45	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6 C7 C6 C7 C8 PAR. A1	50 60 30 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time off and delay from power-ons of regulator 1 regulator 1 activity during regulation probe alarm minimum time between two power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time off and delay from power-on of regulator 2 minimum time off and delay from power-on of regulator 2 minimum time on regulator 2 minimum time on regulator 2 minimum time on regulator 2 minimum time activity during regulation probe alarm	if u0 = 4, two steps 1 999 °C/°F 0 999 s 0 999 s 1 999 s 1 999 s 0 240 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 = off 1 = on 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F
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	31 32 33 34 35 36 N. 37 38 39 40 41 42 43 44 N. 45 46 47 48 49	r14 r15 r16 r17 r18 r19 PAR. C1 C2 C3 C4 C5 C6 C7 C8 PAR. A1 A2 A3 A4 A5	50 60 30 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	proportional band integral action time derivative action time PID regulator cycle time on PWM relay or analogue output PID regulator minimum time on on PWM relay or analogue output PID regulator minimum time off on PWM relay or analogue output REGULATOR PROTECTION minimum time between two power-ons of regulator 1 minimum time on regulator 1 regulator 1 activity during regulation probe alarm minimum time off and delay from power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time off and delay from power-ons of regulator 2 minimum time on regulator 2 minimum time on regulator 2 regulator 2 activity during regulator 2 activity during regulator 1 alarm threshold temperature 1 alarm type temperature 1 alarm threshold temperature 2 alarm threshold temperature 2 alarm type	if u0 = 4, two steps 1 999 °C/°F 0 999 s 1 999 s 1 999 s 1 999 s 0 240 s 0 240 s 0 240 s MIN MAX. 0 240 min 0 240 min 0 240 min 0 240 s 0 = off 1 = on 0 240 s 0 = off 1 = on 0 240 s 0 = off 1 = on MIN MAX. -199 999 °C/°F 0 = disabled 1 = absolute maximum 2 = absolute minimum 2 = absolute minimum 3 = minimum relative to SP2 4 = maximum relative to SP2 4 = maximum relative to SP2 4 = maximum relative to SP2
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Power 115 12-24 Earthir Rated	supply 230 V/ VAC/D ng met impuls	/: AC (+1 DC (+10 hods fo e-withs	0% -15° or the c stand v	%), 50/6 ontrol de	60 Hz (±3 ł	3 Hz), m Hz), max None 2.5	nax. 5 VA	in EV3 M9
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Power 115 12-24 Earthin Rated Over Softwa Analog PTC pr NTC pp PTC pr NTC p 1000 p Ni 120 J t couplel K t coupled Coupled	supply 230 V/ VAC/C ng met impuls voltage are clas gue inp robes probes probes probes probes na, 4-2 inputs	r: AC (+1 hods fc hods fc catego ss and uts Mea Res Mea Res Res Res Res Res Res Res Res Res Res	0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:	%), 50/d ontrol de oltage re ent field: ent field: ent field: ent field: and 2-1 1 inj	60 Hz (±3 l evice	3 Hz), m Hz), may None 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (can be t (multi- gured fo	PTC, NTC s, J or K -10 V or 50 to 156 (1°F) 40 to 110 (1°F) 40 to 110 (1°F) 80 to 300 (1°F) 0 to 700° 1°F) 0 to 999° 1°F) 0 to 999° 1°F) 	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 50 °C (from -112 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) red n, not available if the analog Pt 1000 or NI 120 3 wires
Power 115 12-24 Earthin Rated Over-v Softwa Analog PTC pr Pt 1000 p Ni 120 J t couple K t couple	supply 230 V/ VAC/C ng met impuls voltage are clas gue inp robes probes probes probes probes na, 4-2 inputs	r: AC (+1 hods fc hods fc catego ss and uts Mea Res Mea Res Res Res Res Res Res Res Res Res Res	0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:	%), 50/6 ontrol de oltage re ent field: ent field: ent field: ent field: ent field: and 2-1 1 1 1	60 Hz (±3 evice	3 Hz), m Hz), may None 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (can be t (multi- gured fo	PTC, NTC s, J or K -10 V or 50 to 156 (1°F) 40 to 110 (1°F) 40 to 110 (1°F) 80 to 300 (1°F) 0 to 700° 1°F) 0 to 999° 1°F) 0 to 999° 1°F) 	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) 50 °C (from -148 to 999 °F) 50 °C (from -112 to 999 °F) °C (from 32 to 999 °F) °C (from 32 to 999 °F) red n, not available if the analog
Power 115 12-24 Earthin Rated Over Softwa Analog PTC pr NTC pr NTC pr NTC pr 1000 p Ni 120 I t coupled K t coupled K t coupled Co-20 r Transd	supply 230 V/ VAC/C ng met impuls voltage are clas gue inp robes robes probes probes probes probes is mA, 4-2 inputs	AC (+1) AC (+1) C (+1) Hods for AC (+1) AC (+1) <td< td=""><td>0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:</td><td>%), 50/4 ontrol de oltage re ent field: ent field:</td><td>60 Hz (±3 l evice</td><td>3 Hz), m Hz), may None 2.5 II A 1 for probes mA, 0 probe) from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (from C)) (from C 1 °C (from C)) (</td><td>PTC, NTG s, J or K -10 V or) 50 to 150 : (1 °F) 100 to 65 : (1 °F) 100 to 65 : (1 °F) 10 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) e configur -purpose) r Pt 100, signal.</td><td>U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni 1 thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -112 to 999 °F) D °C (from 32 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) red p, not available if the analog Pt 1000 or NI 120 3 wires 3.3 V, 1 mA none</td></td<>	0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:	%), 50/4 ontrol de oltage re ent field:	60 Hz (±3 l evice	3 Hz), m Hz), may None 2.5 II A 1 for probes mA, 0 probe) from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (from C)) (from C 1 °C (from C)) (PTC, NTG s, J or K -10 V or) 50 to 150 : (1 °F) 100 to 65 : (1 °F) 100 to 65 : (1 °F) 10 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) e configur -purpose) r Pt 100, signal.	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni 1 thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -112 to 999 °F) D °C (from 32 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °F) red p, not available if the analog Pt 1000 or NI 120 3 wires 3.3 V, 1 mA none
Power 115 12-24 Earthin Rated Over-\ Softwa Analog PTC pr PTC pr NTC pi NTC pi NTC pi NTC pi NTC pi Nt 120 Log t t couple K t t couple K t t couple Digital Dry cc	supply 230 V/ VAC/C ng met impuls voltage are clas gue inp robes robes probes probes probes probes is mA, 4-2 inputs	AC (+1) AC (+1) C (+1) Hods for AC (+1) AC (+1) <td< td=""><td>0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:</td><td>%), 50/d ontrol de ontrol de oltage re ent field: ent fi</td><td>60 Hz (±3 l evice</td><td>3 Hz), may Hz), may 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (from C 1 °C (can be t (multi- gured fo</td><td>PTC, NT(s, J or K -10 V or) 50 to 15(: (1 °F) 40 to 11(: (1 °F) 80 to 30(: (1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) -purpose) rr Pt 100, signal. els with p</td><td>U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni 1 thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -112 to 999 °F) C (from 32 to 990 °F) C (from</td></td<>	0% -15'' pr the c stand vir yry structur ssureme olution: ssureme olution: ssureme olution: ssureme olution:	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 l evice	3 Hz), may Hz), may 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (from C 1 °C (can be t (multi- gured fo	PTC, NT(s, J or K -10 V or) 50 to 15(: (1 °F) 40 to 11(: (1 °F) 80 to 30(: (1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) -purpose) rr Pt 100, signal. els with p	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni 1 thermocouples, 0-20 mA, 4 2-10 V transducers (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -112 to 999 °F) C (from 32 to 990 °F) C (from
Power 115 12-24 Earthin Rated Over-v Softwa Analog PTC pr PTC pr PTC pr PTC pr NTC pr PT 100 1000 g Ni 120 J tt coupled K tt coupled Digital Dry cco Analog	supply 2 30 V/ VAC/D ng met impuls voltage are clas gue inp robes robes probes probes probes hermo s hermo s mA, 4-2 inputs	r: AC (+1 hods fc hods fc re-withs catego ss and uts Meaa Res Meaa Res Res Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur isureme olution: isureme olution: isureme olution: isureme olution:	%), 50/d ontrol de oltage re ent field: ent field: ent field: ent field: and 2-1 ing Cc Pri Av co	60 Hz (±3 I evice	3 Hz), may Hz), may 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (can be t (multi- gured fo	PTC, NT(s, J or K -10 V or) 50 to 15(: (1 °F) 40 to 11(: (1 °F) 80 to 30(: (1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) -purpose) r Pt 100, signal. els with prepoveror	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from 32 to 999 °F) 10 °C (from 32 to 999 °C (from 32 to 990 °C (from 32
Power 115 12-24 Earthin Rated Over-\ Softwa Analog PTC pr PTC pr NTC pp PTC pr NTC pp NTC pp NTC pr NTC pu NTC pu NTC pu NTC pu NTC pu DT 1000 p Ni 120 J t tcouple K t t couple Dry cc Analog Signal	supply 230 V/ VAC/C ng met impuls voltage are clas gue inp robes robes probes probes probes probes hermo is nA, 4-2 inputs inputs	r: AC (+1) AC (+10 hods fc re-withs catego ss and uts Meaa Res Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur isureme olution: isureme olution: isureme olution: isureme olution:	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	50 Hz (±3 l evice	3 Hz), may Hz), may 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (from C 1 °C (can be t (multi- gured fo	PTC, NTC s, J or K -10 V or 50 to 150 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) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) o to 700 ° 1 °F) o to 700 ° 1 °F) o to 700 ° 1 °F) o to 700 ° 1 °F) signal. els with pre- re powerce hm	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 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) 10 °C (from 32 to 990 °C (from 32 to
Power 115 12-24 Earthin Rated Over Softwa Analog PTC pr PTC pr NTC p PTC pr NTC p 1000 p N120 1000 p N120 J t coupled K t coupled Dry cc Analog Signal 0-10 V Digital	supply 230 V/ VAC/C ng met impuls zoltage are clas gue inp robes probes probes probes probes nA, 4-2 inputs	r: AC (+ 1 hods fc re-with: catego ss and uts Mea Res Res Res Mea Res Res Mea Res Res Res Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur structur structur sureme olution: olution: oluti	%), 50/6 ontrol de oltage re ent field: ent field: ent field: ent field: and 2-1 inn <u>Cc</u> Pri 1 in co pplicable :	60 Hz (±3 l evice	3 Hz), m Hz), may Hz), may 2.5 II A 1 for probes mA, 0 probe) from - 0.1 °C from - 0.1 °C from - 0.1 °C from C 1 °C (can be t (multi- gured for surred for t they an 1 K0 0.0 °C	PTC, NT(s, J or K -10 V or) 50 to 15(; (1 °F) 100 to 65 ; (1 °F) 100 to 65 ; (1 °F) 100 to 300 ; (1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 999 ° 1 °F) 0 to 999 ° 1 °F) 9 to 990 ° 1 °F) 9 to 900	U 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 (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -148 to 999 °F) D °C (from -148 to 999 °F) C (from 32
Power 115 12-24 Earthin Rated Over-\\ Softwa Analog PTC pr PTC pr PTC pr PT 100 1000 p NI 120 NI 120 U I 100 p NI 120 I 100 p NI 120 I 100 p NI 120 I 100 p I 100 p NI 120 I 100 p Signal 0-10 \ Digital K1 rela	supply 2 30 V/ VAC/C ng met impulse voltage are clas gue inp robes robes robes probes probes hermo is mA, 4-2 is inputs is nna, 4-2 is nna, 4-2 is 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	r: AC (+ 1 hods fc re-with: catego ss and uts Mea Res Res Res Mea Res Res Mea Res Res Res Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur structur structur sureme olution: olution: oluti	%), 50/6 ontrol de oltage re ent field: ent field: ent field: ent field: and 2-1 inn <u>Cc</u> Pri 1 in co pplicable :	60 Hz (±3 l evice	3 Hz), m3 Hz), m3 Hz), m3 Hz), m3 2.5 II A 1 for probes mA, 0 probe) from - 0.1 °C from - 0.0 °C fro	Ax. 5 VA x. 5 VA/3 PTC, NT(s, J or K -10 V or 50 to 15(c (1 °F) 100 to 65 c (1 °F) 100 to 65 c (1 °F) 100 to 300 c (1 °F) 0 to 700 °1 1 °F) 0 to 700 °1 1 °F) 0 to 999 ° 1 °F) 0 to 999 ° 1 °F) 9 to 990 ° 1 °F) 9 to 900 ° 1 °F) 1	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F) C (fr
Power 115 12-24 Earthin Rated Over-\- Softwa Analog PTC pr PTC pr PTC pr PTC pr PT 100 1000 p Ni 120 Digital Digital Ocer- Signal 0-10 \ Digital K1 rela K2 rela	supply 2 30 V/ VAC/C ng met impuls voltage are class robes robes robes robes probes probes probes thermo shermo shermo shermo shart i nputs	r: AC (+ 1 C (+ 10 hods fc hods fc e-withs: category rates as and wits Mea Res Acceler Res Acceler Res Acceler Res Acceler Accel	0% -15' pr the c stand vir stand vir ry structur structur sureme olution: olution: sureme olution: sureme olution: sureme olution: sureme olution: sureme olution: o	%), 50/6 ontrol de oltage re ent field: ent field: ent field: ent field: and 2-1 inn <u>Cc</u> Pri 1 in co pplicable :	60 Hz (±3 l evice	3 Hz), m3 Hz), m3 Hz), m3 Z, m3 Z, m3 Hz), m3 Z, m3 Hz), m3 Hz, m	Ax. 5 VA x. 5 VA/3 PTC, NTG s, 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) 0 to 700 °1 1°F) 0 to 700 °1 0 to	U 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 (regulat D °C (from -58 to 302 °F) D °C (from -58 to 230 °F) D °C (from -148 to 999 °F) D °C (from -148 to 999 °F) C (from 32
Power 115 12-24 Earthin Rated Over-V Softwa Analog PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC op PTC op	supply 2 30 V/ VAC/C ng met impuls voltage are class gue inp robes robes probes probes probes thermo rs mA, 4-2 ulucers: inputs matact gue out y outpu ay ay	r: AC (+ 1 AC (+ 10 hods fc e-withs: category as and uts Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur s	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 l evice	3 Hz), may None 2.5 II A 1 for probes mA, 0 probe() from - 0.1 °C gured for or PWM he nodt 1 KOI 0.01 ore-char SPST SPDT	Ax. 5 VA x. 5 VA/3 PTC, NTG s, 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) 0 to 700 °1 1°F) 0 to 700 °1 0 to	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F) C (fr
Power 115 12-24 Earthin Rated Over-V Softwa Analog PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC pr PTC op PTC op	supply 2 30 V/ VAC/D ng met impuls voltage are clas gue inp robes probes probes probes probes probes hermo s hermo s mA, 4-2 inputs matact yue out yue out yue out ay ay d or Tyy ponal fe	r: AC (+ 1 AC (+ 10 hods fc e-withs: category as and uts Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur s	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 I evice	3 Hz), m Hz), may 2.5 11 A 1 for probes mA, 0 probe) from - 0.1 °C from - from	nax. 5 VA x. 5 VA/3 PTC, NTC s, J or K -10 V or 50 to 150 c (1 °F) 40 to 110 c (1 °F) 100 to 64 c (1 °F) 100 to 64 c (1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) 0 to 700 ° 1 °F) -purpose) r Pt 100, signal. els with p re powerden hm V nical relay; , 16 A res. 1	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni 1 thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) 1 °C (from 32 to 999 °C) 1 °C
Power 115 12-24 Earthin Rated Over-\ Softwa Analog PTC pr PTC pr NTC pp PT 1000 p N1200 PT 1000 p N1200 N1200 J t Coupled Coupled Coupled Output Coupled Coupl	supply 2 30 V/ VAC/C ng met impuls voltage are clas gue inp robes probes probes probes probes hermo s hermo s hermo s hermo tucers: inputs vham, 4-2 hermo s hermo	r: AC (+1) AC (+1) C (+10) hods fc re-with: rcatego ss and Mea Res Mea Res Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand vir rry structur s	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 I evice	3 Hz), may None 2.5 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 C 1 from C 1 °C (can be t (multi- gureed for SPDT SPST SPDT Type 2 C LED c	nax. 5 VA x. 5 VA/3 PTC, NTC s, J or K -10 V or 50 to 155 c (1 °F) 40 to 110 c (1 °F) 100 to 65 c (1 °F) 100 to 65 c (1 °F) 100 to 60 c (1 °F) 0 to 700 ° 1 °F) 1 °F) signal. els with pre- re powerde- hm V nical relay 1 display, 3	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) C (from 32 to 999 °F) C (fr
Power 115 12-24 Earthin Rated Over-\ Softwa Analog PTC pr PTC pr PTC pr PTC pr PT 100 1000 p Ni 120 Digital Digital O-20 r transd Digital O-20 r transd O-20 r transd Digital Couple Signal 0-10 V Digital K2 rela K2 rela K2 rela Additic action: Display Alarm	supply 2 30 V/ VAC/C ng met impuls /vitage are clas gue inp robes robes probes probes probes probes probes is ma, 4-2 inputs is ma, 4-2 inputs is ma, 4-2 inputs is may a inputs is may a inputs is inputs is may a inputs is is inputs inputs inputs is inputs inputs is inputs inp	r: AC (+ 1 C (+ 10 hods fc icatego catego ss and uts Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand viv ry structur sureme olution: sure	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 I evice	3 Hz), m Hz), may Hz), may 2.5 11 2.5 11 A 1 for probes mA, 0 probes from - 0.1 °C from - 0.1 °	Ax. 5 VA/3 PTC, NT(s, J or K -10 V or 50 to 15((1°F) 100 to 65 (1°F) 100 to 65 (1°F) 100 to 65 (1°F) 0 to 700° 1°F) 0 to 700° 1°F) 0 to 700° 1°F) 0 to 700° 1°F) 0 to 700° 1°F) 0 to 700° 1°F) 0 to 700° 1°F) 1°F) 100 to 45 (1°F) 0 to 700° 1°F) 1°F) 100 to 45 (1°F) 100 to 45 (1°F) 100 to 700° 1°F) 100 to 700° 100 to 700° 10	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni thermocouples, 0-20 mA, 4 2-10 V transducers (regulat 0 °C (from -58 to 302 °F) 0 °C (from -58 to 230 °F) 0 °C (from -112 to 999 °F) 0 °C (from -112 to 999 °F) 10 °C (from 32 to 999 °F) 10 °C (from 32 to 999 °F) 11000 or NI 120 3 wires 3.3 V, 1 mA none 200wer supply 12-24 VAC/DC 21 (K1 and K2 relay) 5. @ 250 VAC 22 @ 250 VAC 23 digit, with function icons
Power 115 12-24 Earthin Rated Over-\ Softwa Analog PTC pr PTC pr PTC pr PTC pr PT 100 1000 p Ni 120 Digital Digital O-20 r transd Digital O-20 r transd O-20 r transd Digital Couple Signal 0-10 V Digital K2 rela K2 rela K2 rela Additic action: Display Alarm	supply 2 30 V/ VAC/C ng met impuls /vitage are clas gue inp robes robes probes probes probes probes probes is ma, 4-2 inputs is ma, 4-2 inputs is ma, 4-2 inputs is may a inputs is may a inputs is inputs is may a inputs is is inputs inputs inputs is inputs inputs is inputs inp	r: AC (+1) AC (+1) C (+10) hods fc re-with: rcatego ss and Mea Res Mea Res Mea Res Res Res Res Res Res Res Res	0% -15' pr the c stand viv ry structur sureme olution: sure	%), 50/d ontrol de ontrol de oltage re ent field: ent fi	60 Hz (±3 I evice	3 Hz), m 3 Hz), may None 2.5 II A 1 for probes mA, 0 probed from - 0.1 °C from C 1 °C (from c 1 °C (can be t (multi- gyred for o.or YPWM he mode t they at 1 KOI 0.0.01 SPST SPST SPST LED c Built- 1 TTH	nax. 5 VA x. 5 VA/3 PTC, NT(5, J or K -10 V or 50 to 150 : (1 °F) 100 to 65 : (1 °F) 100 to 700 °1 : 1 °F) 0 to 700 °1 1 °F) e configur -purpose) r Pt 100, signal. els with pre powerd hm V nical relay , 16 A res. 1 display, 3 in L MODBU	U in EV3 M9 W in EV3 M3 C, Pt 100, Pt 1000 or Ni C, Pt 100, Pt 1000 or Ni C, Pt 100, Pt 1000 or Ni C (from -58 to 302 °F) O °C (from -58 to 230 °F) O °C (from -112 to 999 °F) O °C (from -112 to 999 °F) C (from 32 to 999 °C) C (from 32 to 999 °F) C (from 32 to 999 °F) C (from 32 to 999 °C) C (from 32 t

