



Disconnect the device from the mains

4

regulatior temperatur

		LV3402									
CO S.p.A. EV3402 PTC/NTC Instruction sheet ver. 1.0 Code 1043402PE103 Page 2 Touch the ON/STAND-BY key (or take no action for 6											
	•	Ũ	•	the procedure.							
		INGS	figuret	ion noromotoro							
I	la 👘	SET	l	ion parameters	ay will show the lebel "DA "						
		961	<u> </u>	Touch the SET key for 4: the display will show the label " PA ".							
	≏	SET		Touch the SET key.							
	۲.		× •	Touch the UP or DOWN key within	15 s to set the PAS value (de-						
			•	fault "-19"). Touch the SET key (or take no action for 15 s): the displ							
	=	SET	<u> </u>	show the label "SP".							
	Ý		•	Touch the UP or DOWN key to select a parameter.							
		SET	1	Touch the SET key.							
				·····							
	Í		L	Touch the UP or DOWN key within 15 s to set the value.							
	≏	SET		Touch the SET key (or take no action for 15 s).							
		SET	1	Touch the SET key for 4 s (or take no action for 60s) to exit the							
	procedure.										
2	Rest	oring f	actory	settings (default) and saving cu	stomised settings						
	N.B.										
)			at the f	actory settings are appropriate; se	e the section CONFIGURATION						
Ŷ		A <i>RAME</i> : aving cu		ed settings overwrites the factory se	ettings.						
					J.						
	=	SET	1	Touch the SET key for 4 s: the dis	play will show the label " PA ".						
		SET	1	Touch the SET key.							
	-		<u> </u>								
	1			Touch the UP or DOWN key within	15 s to set the value.						
_	VAL.		CRIPTI								
	161	_		storing factory information (default) ving customised settings)						
		CCT	1	Touch the SET key (or take no a							
	=	SET	I	show the label "dEF" (for setting "MAP" (for setting the "161" valu							
		SET	1	Touch the SET key.							
			_∎ ∑_I≱								
	•	=NC √		Touch the UP or DOWN key within							
		SET	1	Touch the SET key (or take no a show "" flashing for 4 s, afte							
	!		•	procedure.							
	1		the dev	ice from the power supply. Touch the SET key for 2s before	action 6 to exit the procedure						
	=	SET	I	beforehand.							
	CON										
		FIGUR/	ATION	PARAMETERS							
				PARAMETERS							
∩≡	No.	PAR. SP	DEF.	PARAMETERS SETPOINT setpoint 1	MIN MAX. r1 r2						
₀≣	No.	PAR.	DEF.	SETPOINT	r1 r2 r7 r8						
₽≣	No. 2 3	PAR. SP SP2	DEF. 0.0 0.0	SETPOINT setpoint 1 setpoint 2	r1 r2 r7 r8 not available if u0 = 0, 3 or 4						
) ≣	No. 2	PAR. SP	DEF. 0.0	SETPOINT setpoint 1	r1 r2 r7 r8						
Ĵ≣	No. 2 3 No.	PAR. SP SP2 PAR.	DEF. 0.0 0.0 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC						
0 ∎ ⊃	No. 2 3 No. 4	PAR. SP SP2 PAR. CA1	DEF. 0.0 0.0 DEF. 0.0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F						
0 ≣	No. 2 3 No. 4 5 6 7	PAR. SP2 PAR. CA1 P0 P1 P2	DEF. 0.0 0.0 DEF. 0.0 0 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F						
0 ≣	No. 2 3 No. 4 5 6	PAR. SP2 PAR. CA1 P0	DEF. 0.0 0.0 DEF. 0.0 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes						
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0 ≣	No. 2 3 No. 4 5 6 7 8 8 9 9 No.	PAR. SP2 SP2 PAR. CA1 P0 P1 P1 P2 P5 P8 PAR.	DEF. 0.0 DEF. 0.0 0 0 0 0 0 5 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX.						
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<u>0</u> ≣	No. 2 3 No. 4 5 6 7 8 8 9 9 No.	PAR. SP2 SP2 PAR. CA1 P0 P1 P1 P2 P5 P8 PAR.	DEF. 0.0 DEF. 0.0 0 0 0 0 0 5 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the						
0 ⁼	No. 2 3 No. 4 5 6 7 8 8 9 9 No.	PAR. SP2 SP2 PAR. CA1 P0 P1 P1 P2 P5 P8 PAR.	DEF. 0.0 DEF. 0.0 0 0 0 0 0 5 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in-						
0 ⁼	No. 2 3 No. 4 5 6 7 8 8 9 9 No.	PAR. SP2 PAR. CA1 P0 P1 P1 P2 P5 P8 PAR.	DEF. 0.0 DEF. 0.0 0 0 0 0 0 5 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints						
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© -> -> -> -> -> -> -> -> -> -> -> -> ->	No. 2 3 No. 4 5 6 7 8 8 9 9 No.	PAR. SP2 PAR. CA1 P0 P1 P1 P2 P5 P8 PAR.	DEF. 0.0 DEF. 0.0 0 0 0 0 0 5 DEF.	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled						
© -> -> -> -> -> -> -> -> -> -> -> -> ->	No. 2 3 No. 4 5 6 7 8 9 No. 10	PAR. SP SP2 PAR. CA1 P0 P1 P2 P5 P4R. U0	DEF. 0.0 0.0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayyed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 2						
	No. 2 3 No. 4 5 6 7 8 9 No. 10 10	PAR. SP SP2 PAR. CA1 P0 P1 P2 P5 P4 P0 U0	DEF. 0.0 0 0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulator 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm						
<u>0</u> ≣ ~	No. 2 3 No. 4 5 6 7 8 9 No. 10	PAR. SP SP2 PAR. CA1 P0 P1 P2 P5 P4R. U0	DEF. 0.0 0.0 0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayyed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 2						
	No. 2 3 No. 4 5 6 7 8 9 90 No. 10 10	PAR. SP SP2 PAR. CA1 P0 P1 P2 P5 P4 P0 U0	DEF. 0.0 0 0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulator 0 = disabled 1 = regulator 1 2 = regulator 2						
	No. 2 3 No. 4 5 6 7 8 9 90 No. 10 10	PAR. SP SP2 PAR. CA1 P0 P1 P2 P5 P4 P0 U0	DEF. 0.0 0 0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 1 3 = alarm 0 = disabled 1 = regulator 1						
	No. 2 3 No. 4 5 6 7 8 9 No. 10 11 11 12 12	РАЯ. SP PAR. CA1 P0 P1 P2 P8 PAR. u0 U1 U1	DEF. 0.0 0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = ro 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulator 1 = regulator 1 2 = regulator 1 2 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F						
	No. 2 3 4 5 6 7 8 9 No. 10 11 12	PAR. SP PAR. CA1 P0 P1 P2 P8 PAR. U0	DEF. 0.0 0.0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic K1 output configuration type K2 output configuration type REGULATION	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulator 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F if u0 = 3, cold mode regula-						
	No. 2 3 4 5 6 7 8 9 No. 10 11 12	PAR. SP PAR. CA1 P0 P1 P2 P8 PAR. U0	DEF. 0.0 0.0 0 0 0 0 0 0 5 DEF. 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic K1 output configuration type K2 output configuration type REGULATION	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulator 0 = disabled 1 = regulator 1 2 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 2 3 = alarm MIN MAX.						
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	No. 2 3 No. 6 7 7 8 9 No. 10 10 11 11 12 No. 13 14	PAR. SP2 PAR. CA1 P0 P5 P8 PAR. U0 U1 U1 U2 PAR. r0	DEF. 0.0 0.0 0 0 0 0 0 5 DEF. 0 1 1 2 2 DEF. 2.0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic K1 output configuration type K2 output configuration type REGULATION setpoint 1 differential setpoint 1 minimum	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX.						
	No. 2 3 No. 4 5 6 7 8 9 No. 10 11 12 No. 13 14 15	PAR. SP2 SP2 CA1 P0 P5 P8 PAR. U0 U1 U1 U2 PAR. r0 r0	DEF. 0.0 0.0 0 0 0 0 0 0 5 DEF. 0 1 1 2 2.0 2.0 35.0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic k1 output configuration type K2 output configuration type REGULATION setpoint 1 differential setpoint 1 minimum setpoint 1 maximum hot or cold mode regulation	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with second setpoint relative to the first 3 = neutral zone regulation 4 = 2-step regulaton 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F if u0 = 3, cold mode regula- tion differential -99 °C/°F r2 r1 300 °C/°F 0 = cold mode 1 = hot mode 1 99 °C/°F						
	No. 2 3 No. 4 5 6 7 8 9 No. 10 11 12 No. 13 14 15 16 16	PAR. SP2 PAR. CA1 P0 P1 P2 P3 PAR. U0 U1 U1 U1 U1 U1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1 V1	DEF. 0.0 0 0 0 0 0 0 0 0 5 DEF. 0 1 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic k1 output configuration type K2 output configuration type REGULATION setpoint 1 differential setpoint 1 minimum setpoint 1 maximum hot or cold mode regulation regulator 1	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with second setpoint relative to the first 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F if u0 = 3, cold mode regula- tion differential -99 °C/°F r2 r1 300 °C/°F 0 = cold mode 1 = hot mode						
	No. 2 3 3 No. 4 5 6 7 7 8 9 No. 10 10 10 11 12 No. 13 14 15 16 17 18 18	PAR. SP2 CA1 PO P1 P2 P5 PAR. U0 U1 U1 U1 U2 PAR. r0 r0 r1 r2 r5	DEF. 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 0 0 0 0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayyed display refresh time DIGITAL OUTPUTS operating logic K1 output configuration type K2 output configuration type REGULATION setpoint 1 differential setpoint 1 minimum setpoint 1 maximum hot or cold mode regulation regulator 1 setpoint 2 differential setpoint 2 differential	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F if u0 = 3, cold mode regula- tion differential -99 °C/°F r2 r1 300 °C/°F 0 = cold mode 1 = hot mode 1 99 °C/°F						
	No. 2 3 No. 4 5 6 7 8 9 90 No. 10 10 11 11 12 No. 13 14 15 16 17 17	PAR. SP2 CA1 PAR. P2 P5 PAR. U0 U1 U1 U1 U2 PAR. r0 r0 r1 r2 r5	DEF. 0.0 0 0 0 0 0 0 0 0 5 DEF. 0 1 2 0 DEF. 2.0 0 0 35.0 0 0 2.0	SETPOINT setpoint 1 setpoint 2 ANALOGUE INPUTS regulation probe offset type of probe enable decimal point °C temperature measurement unit value displayed display refresh time DIGITAL OUTPUTS operating logic K1 output configuration type K2 output configuration type REGULATION setpoint 1 differential setpoint 1 minimum setpoint 1 maximum hot or cold mode regulation regulator 1 setpoint 2 differential	r1 r2 r7 r8 not available if u0 = 0, 3 or 4 MIN MAX. -25 25 °C/°F 0 = PTC 1 = NTC 2 = Pt 1000 2-wire 0 = no 1 = yes 0 = °C 1 = °F 0 = regulation temperature 1 = setpoint 1 0 250 s : 10 MIN MAX. 0 = 1 regulator 1 = 2 regulators with second setpoint relative to the first 2 = 2 regulators with 2 in- dependent setpoints 3 = neutral zone regulation 4 = 2-step regulation 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm 0 = disabled 1 = regulator 1 2 = regulator 2 3 = alarm MIN MAX. 1 99 °C/°F if u0 = 3, cold mode regula- tion differential -99 °C/°F r2 r1 300 °C/°F 0 = cold mode 1 = hot mode 1 = 99 °C/°F if u0 = 3, hot mode regula- tion differential						

44 i6 0 multi-purpose input activation 0 = with contra	naximum relative to SP2 relative to SP2 n active n not active + regulator + regulator + regulator + regulator		
38 A6 0 temperature 2 alarm delay 0 999 min 39 A7 0 temperature alarm delay after 0 999 min 39 A7 0 temperature alarm delay after 0 999 min 40 A8 0 additional alarm signal delay after 0 999 min 40 A8 0 additional alarm signal delay after 0 999 min 41 A9 0 alarm relay activation 0 = with alarm 42 A11 2.0 temperature alarm switch off dif- 1 99 °C/° F 43 i5 0 multi-purpose input function 0 = disabled 43 i5 0 multi-purpose input function 0 = disabled 1 alarm iA off 4 alarm iA off 43 i5 0 multi-purpose input function 0 = disabled 4 alarm iA off 5 switches de 6 6 44 i6 0 multi-purpose input activation 0 = with contation 44 i6 <	naximum relative to SP2 relative to SP2 n active n not active + regulator + regulator + regulator + regulator		
3 = minimum 4 = maximum 4 = maximum 4 38 A6 0 temperature 2 alarm delay 0999 min 0999 min 39 A7 0 temperature alarm delay after modifying setpoint and power-on ter silencing if the condition per- sists 0999 min 0999 min 40 A8 0 additional alarm signal delay af- ter silencing if the condition per- sists 0999 min 1 0999 min 1 41 A9 0 alarm relay activation 0 = with alarm 1 42 A11 2.0 temperature alarm switch off dif- ferential 199 °C/°F No. PAR. DEF. DIGITAL INPUTS MIN MAX. 43 i5 0 multi-purpose input function 0 = disabled 1 = alarm iA off 43 i5 0 multi-purpose input function 0 = disabled 1 = alarm iA off 44 i6 0 multi-purpose input activation 0 = with conta 1	relative to SP relative to SP2 n active n not active + regulator lator 2 off + regulator + regulator + regulator		
38 A6 0 temperature 2 alarm delay 0 999 min 39 A7 0 temperature alarm delay after modifying setpoint and power-on 0 999 min 40 A8 0 additional alarm signal delay after silencing if the condition persists 0 999 min 41 A9 0 alarm relay activation 0 = with alarm 1 42 A11 2.0 temperature alarm switch off differential 1 99 °C/°F 43 i5 0 multi-purpose input function 0 = disabled 1 43 i5 0 multi-purpose input function 0 = diarm iA off + regu 3 alarm iA1 off 4 = alarm iA2 off + regu 3 = alarm iA2 off + regu 44 i6 0 multi-purpose input activation 0 = with contain 1	+ regulator lator 2 off + regulator + regulator + regulator		
39 A7 0 temperature alarm delay after modifying setpoint and power-on 0 999 min 40 A8 0 additional alarm signal delay after silencing if the condition persists 0 999 min 41 A9 0 alarm relay activation 0 = with alarm 1 = with alarm 42 A11 2.0 temperature alarm switch off diffication in the set of the condition persists 43 I5 0 multi-purpose input function 0 = disabled 43 I5 0 multi-purpose input function 0 = disabled 6 alarm iA 0 0 alarm iA 43 I5 0 multi-purpose input function 0 = disabled 1 alarm iA 0 0 alarm iA 0 alarm iA 0 0 alarm iA 0 ff 5 switch set 0 0 44 i6 0 multi-purpose input activation 0 = with contat 1 with contat 1 with contat 1	+ regulator lator 2 off + regulator + regulator evice on/off		
40 A8 0 additional alarm signal delay after silencing if the condition persists 0 999 min 41 A9 0 alarm relay activation 0 = with alarm 1 = with alarm 1 = with alarm 42 A11 2.0 temperature alarm switch off differential 1 99 °C/°F No. PAR. DEF. DIGITAL INPUTS MIN MAX. 43 I5 0 multi-purpose input function 0 = disabled 4 alarm iA off + regu 3 = alarm iA off 5 switches de 6 modifies esset/onts set/ontsset/onts 44 i6 0 multi-purpose input activation 0 = with contain	+ regulator lator 2 off + regulator + regulator evice on/off		
41 A9 0 alarm relay activation 0 = with alarm 1 = with contained with alarm 1 =	+ regulator lator 2 off + regulator + regulator evice on/off		
42 A11 2.0 temperature alarm switch off dif-ferential 1 99 °C/°F No. PAR. DEF. DIGITAL INPUTS MIN MAX. 43 i5 0 multi-purpose input function 0 = disabled 43 i5 0 multi-purpose input function 0 = disabled 43 i5 0 multi-purpose input function 0 = disabled 1 = alarm iA 2 = alarm iA1 off 4 6 = off 5 = switches de 6 = modifies 44 i6 0 multi-purpose input activation 0 = with contain	+ regulator lator 2 off + regulator + regulator evice on/off		
No. PAR. DEF. DIGITAL INPUTS MIN MAX. 43 i5 0 multi-purpose input function 0 = disabled 43 i5 0 multi-purpose input function 0 = disabled 2 a larm iA 2 = alarm iA off + regu 3 a larm iA1 off off 4 i6 0 multi-purpose input activation 0 = with conta 44 i6 0 multi-purpose input activation 0 = with conta	 Hator 2 off + regulator + regulator evice on/off 		
1 = alarm iA 2 = alarm iA off + regu 3 = alarm iA1 off 4 = alarm iA2 off 5 = switches de 6 = modifies setpoint 2 44 i6 0 multi-purpose input activation 1 = with contat 1 = with contat	 Hator 2 off + regulator + regulator evice on/off 		
2 = alarm iA off + regu 3 = alarm iA1 off 4 = alarm iA2 off 5 = switches de 6 = modifies setpoint 2 44 i6 0 multi-purpose input activation 1 = with contat 1 = with contat	 Hator 2 off + regulator + regulator evice on/off 		
3 = alarm iA1 off 4 = alarm iA2 off 5 = switches de 6 = modifies setpoint 2 44 i6 0 multi-purpose input activation 1 = with conta 1 = with conta	+ regulator + regulator evice on/off		
4 = alarm iA2 off 5 = switches de 6 = modifies 44 i6 0 multi-purpose input activation 0 1 = with contra	evice on/off		
44 i6 0 multi-purpose input activation 0 = with contained	evice on/off		
44 i6 0 multi-purpose input activation 0 = with contral 1 = with contral			
1 = with conta	MIN MAX.		
46 POF 1 enable ON/STAND-BY key 0 = no 47 PAS -19 password -99 999	1 = yes		
No. PAR. DEF. MODBUS MIN MAX.			
48 LA 247 MODBUS address 1 247 49 Lb 2 MODBUS baud rate 0 = 2,400 bau	1 247 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud even		
9 ALARMS			
CODE DESCRIPTION RESET TO CORRECT Pr1 regulation probe alarm automatic - check PO			
- check probe integrity			
	i5 and i6		
AL1 temperature 1 alarm automatic check A1, A2 and A3 AL2 temperature 2 alarm automatic check A4, A5 and A6			
iA multi-purpose input alarm automatic check i5 and i6			
iA1 regulator 1 protection alarm automatic check i5 and i6			
iA2 regulator 2 protection alarm automatic check i5 and i6			
10 TECHNICAL SPECIFICATIONS			
Purpose of the control device: operating control.			
Construction of the control device: incorporated control.			
Container: black, self-extinguishing.			
Category of heat and fire resistance D. Measurements:			
75.0 x 33.0 x 59.0 mm (2 15/16 x 1 5/16 x 75.0 x 33.0 x 81.5 mm (2 15/	/16 x 1 5/16		
2 5/16 in) with fixed screw terminal blocks 3 3/16 in) with plug-in screw te			
Mounting methods for the control device: to be fitted to a panel, snap-ir	i brackets pro		
vided.			
Degree of protection provided by the cover- IP65 (front).			
Degree of protection provided by the cover- IP65 (front). ing:			
Degree of protection provided by the cover- IP65 (front).	nector.		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² plug-in screw terminal blocks for wires up to 2.5 mm ² : on Pico-Blade cont	nector.		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks Pico-Blade com	nector.		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm² plug-in screw terminal blocks for wires up to 2.5 mm²: on request Pico-Blade control			
Degree of protection provided by the cover- ing: IP65 (front). Connection method: Fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade com for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft).)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft). Operating temperature:) 31 °F)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) plug-in screw terminal blocks for wires up to 2.5 mm ² : on request Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). Operating temperature: Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to Operating humidity:) 31 °F) 158 °F)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 storage temperature: Storage temperature: From -40 to 70 °C (from -40 to 90%.) 31 °F) 158 °F)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to relative humidity without conder) 31 °F) 158 °F)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade com for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU)) 31 °F) 158 °F) ensate from 1		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm² Pico-Blade cont for wires up to 2.5 mm²: on request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to 90%. Pollution status of the control device: 2.) 31 °F) 158 °F) ensate from 1		
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Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft). Operating temperature: Porting temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to 00%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU EMC 2014/30/EU LVD 2014/35/EU. Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7) 31 °F) 158 °F) ensate from 1		
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Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none.) 31 °F) 158 °F) ensate from 1		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: Fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) m (32.8 ft) Operating temperature: From -5 to 55 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 12 RoMS 2011/65/EC WEEE 2012/19/EU REACH (EU) regulation No 12 Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (±10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P5 12-24 VAC/DC (±10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV.) 31 °F) 158 °F) ensate from 1		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: Fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) m (32.8 ft) Operating temperature: From -5 to 55 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 12 RoMS 2011/65/EC WEEE 2012/19/EU REACH (EU) regulation No 12 Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (±10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P5 12-24 VAC/DC (±10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV.) 31 °F) 158 °F) ensate from 1		
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Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: Pollution status of the control device: 2. Compliance: ReACH (EU) regulation No 1 RoHS 2011/65/EC WEEE 2012/19/EU REACH (EU) regulation No 1 Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P5 12-24 VAC/DC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV. Over-voltage category: II. Software class and structure: A. Analogue inputs: 1 for PTC, NTC or Pt 1000 pro probe).) 31 °F) 158 °F) ensate from 1 1907/2006		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU LVD 2014/35/EU. Power supply: UVD 2014/35/EU. Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV. Over-voltage category: II. Software class and structure: A. Analogue inputs: 1 for PTC, NTC or Pt 1000 pro) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulation 77 °F)		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Plug-in screw terminal blocks for wires up to 2.5 mm ² : on request Plco-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU Power supply: UVD 2014/35/EU. Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P5 12-24 VAC/DC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV. Over-voltage category: II. Software class and structure: A. Analogue inputs: Sensor type: KTY 81-121 (990 Ω @ 25 °C, 7 Measurement range: PTC probes: Sensor type: KTY 81-121 (990 Ω @ 25 °C, 7) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulatic bes (regulatic 77 °F) to 302 °F)		
Degree of protection provided by the covering:Ing:IP65 (front).Connection method:fixed screw terminal blocks for wires up to 2.5 mm2Pico-Blade controlfixed screw terminal blocks for wires up to 2.5 mm2plug-in screw terminal blocks for wires up to 2.5 mm2: on requestPico-Blade controlMaximum permitted length for connection cables: power supply: 10 m (32.8 ft)analogue inputs: 10 m (32.8 ft)digital outputs: 10 m (32.8 ft)digital inputs: 10 m (32.8 ft)digital outputs: 10 m (32.8 ft)digital outputs: 10 m (32.8 ft)Operating temperature:From -5 to 55 °C (from -40 to rol 0 °C (from -40 to rol 0 °C (from -40 to rol 0 °C (from -40 to rol 90%.Pollution status of the control device: 2.2.Compliance:RoHS 2011/65/ECWEEE 2012/19/EUREACH (EU) regulation No 12Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV.none. Rated impulse-withstand voltage: 2.5 KV.Over-voltage category: Drev-voltage category:II.for PTC, NTC or Pt 1000 pro probe).PTC probes:Sensor type: Resolution:G3435 (10 KΩ @ 25 °C, 77 °F)NTC probes:Sensor type:B3435 (10 KΩ @ 25 °C, 77 °F)) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulatic 77 °F) to 302 °F))		
Degree of protection provided by the covering: IP65 (front). ing: Connection method: Fixed screw terminal blocks for wires up to 2.5 mm ² : on request Pico-Blade control for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: power supply: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft). Operating temperature: From -5 to 55 °C (from 23 to 1 Storage temperature: From -40 to 70 °C (from -40 to 70 °C (from -40 to 70 °C). Operating humidity: relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU LVD 2014/35/EU. Power supply: 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (±10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV. Over-voltage category: II. Software class and structure: A. Analogue inputs: Sensor type: KTY 81-121 (990 Ω @ 25 °C, 7. Measurement range: from -50 to 150 °C (from -58 Resoluti) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulatic 77 °F) to 302 °F))		
Degree of protection provided by the cover- ing: IP65 (front). Connection method: fixed screw terminal blocks for wires up to 2.5 mm ² Pico-Blade cont for wires up to 2.5 mm ² : on request Maximum permitted length for connection cables: analogue inputs: 10 m (32.8 ft) analogue inputs: 10 m (32.8 ft) digital inputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) digital outputs: 10 m (32.8 ft) Operating temperature: From -5 to 55 °C (from -40 to 0 operating humidity: From -40 to 70 °C (from -40 to relative humidity without conde to 90%. Pollution status of the control device: 2. Compliance: WEEE 2012/19/EU REACH (EU) regulation No 1 EMC 2014/30/EU LVD 2014/35/EU. Poluction status of the control device: 2. 230 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P7 115 VAC (+10% -15%), 50/60 Hz (±3 Hz), max. 4 VA insulated in EV3 P5 12-24 VAC/DC (+10% -15%), 50/60 Hz (±3 Hz), max. 5 VA/3W in EV3 P3. Earthing methods for the control device: none. Rated impulse-withstand voltage: 2.5 KV. Over-voltage category: II. Software class and structure: A. Analogue inputs: 1 for PTC, NTC or Pt 1000 pro probe). PTC probes: Sensor type: KTY 81-121 (990 Ω @ 25 °C, 77 °F) Measurement range: </td <td>) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulatic 77 °F) to 302 °F)) to 121 °F)</td>) 31 °F) 158 °F) ensate from 1 1907/2006 1907/2006 bes (regulatic 77 °F) to 302 °F)) to 121 °F)		

	19	r8	35.0	setpoint 2 maximum	r7 300 °C/°F		Resolution:		U.I C (I F).		
	20	r9	0	block setpoint 2 adjustment	0 = no 1 = yes Pt 1000 probes:		Measurement range:		from -120 to 155 °C (from -184 to 311 °F)		
	21	r10	0	hot or cold mode regulation	0 = cold mode		Resolution:		0.1 °C (1 °F).		
				regulator 2	1 = hot mode	Digital inputs:		1 dry contact ((multi-purpose).		
	22	r11	0.0	digital input second setpoint 1	-99 199 °C/°F			Contact type:		5 VDC, 1.5 mA	
			0.0		setpoint 1 + r11			Power supply:		none	
	23	r12		digital input second setpoint 2	-99 199 °C/°F			Protection:		none.	
					setpoint 2 + r12			2 with electromechanical relay (K1 relay and K		(K1 relay and K2 relay).	
	24	r13	5.0	neutral zone value	-99 199 °C/°F	K1 relay:		SPST, 16 A res. @ 250 VAC			
					if u0 = 4, two steps	K2 relay:		SPDT, 8 A res. @ 250 VAC.			
	No.	PAR.	DEF.	REGULATOR PROTECTION	MIN MAX.	Type 1 or Type 2 Actions:		type 1.			
	25	25 C1 O		minimum time between two	0 240 min	Additional features of Type 1 or Type 2 ac-			C.		
				power-ons of regulator 1		tions:					
	26	C2	0	minimum time off and delay from	0 240 min	Displays: Alarm buzzer:			LED display, 3 digit, with function icons.		
				power-on of regulator 1					built-in.		
	27	C3	0	minimum time on regulator 1	0 240 s	Communications ports:		1 TTL MODBUS slave port for TTL/RS-485			
	28	C4	0	regulator 1 activity during regu- 0 = off 1 = on					serial interface		
				lation probe alarm							
	29	C5	0	minimum time between two	0 240 min						
				power-ons of regulator 2							
	30	C6	0	minimum time off and delay from	0 240 min						
				power-on of regulator 2							
	31	C7	0	minimum time on regulator 2	0 240 s						
	32	C8	0	regulator 2 activity during regu-	0 = off $1 = on$						
				lation probe alarm							
	No.	PAR.	DEF.	ALARMS	MIN MAX.						
	33	A1	0.0	temperature 1 alarm threshold	-99 300 °C/°F						
	34	A2	0	temperature 1 alarm type	0 = disabled						
					1 = absolute minimum						
					2 = absolute maximum						
					3 = minimum relative to SP						
					4 = maximum relative to SP						
	35	A3	0	temperature 1 alarm delay	0 999 min						
	36	A4	0.0	0 temperature 2 alarm threshold -99 300 °C/°F							

WARNING

WARNING The device must be disposed of in accordance with local regulations governing the collection of destriction and electronic equipment collection of electrical and electronic equipment.

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