## KR3T (UK) PID PROCESS CONTROLLER



## **FEATURES**

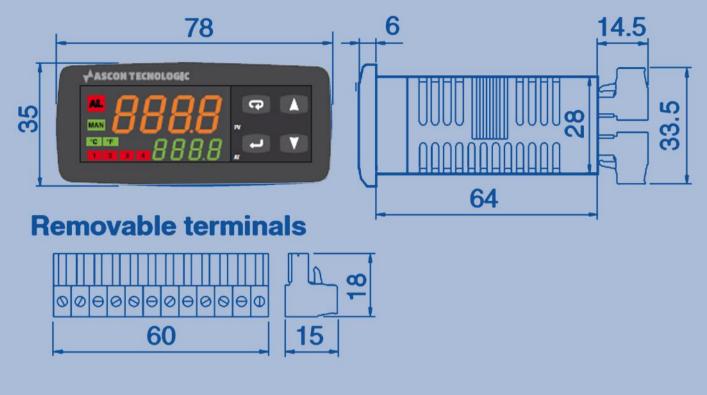
PID CONTROL WITH AUTOTUNE (HEAT/COOL) UNIVERSAL SENSOR AND ANALOGUE INPUTS UP TO FOUR OUTPUTS, RELAY, SSR AND ANALOGUE CONFIGURABLE FOUR SEGEMENT TEMPERATURE PROFILING INDEPENDANT CONFIGURABLE TIMER 3 COLOUR DYNAMIC DISPLAY PC KEY MEMORY PROGRAMMING IP65 FACIA

RS485 MODBUS

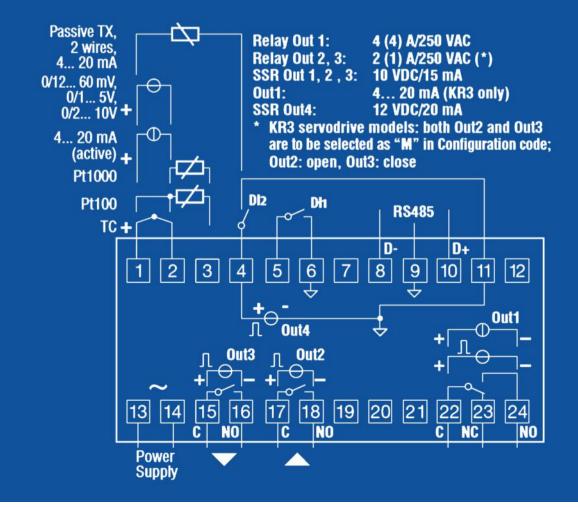
$\mathbf{O}$
V
U
S

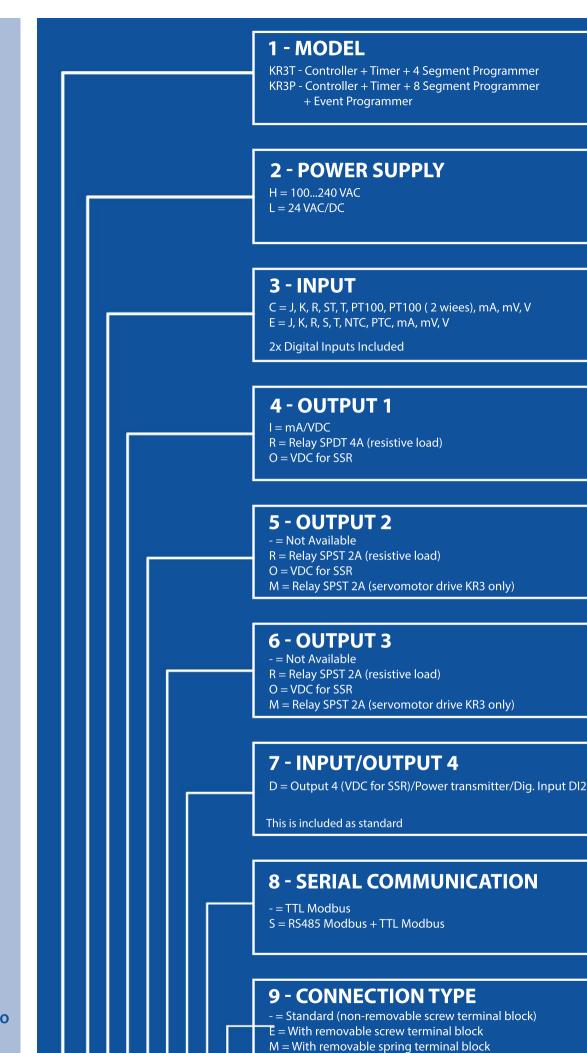
Display		
Dual LED	Main Display: 4-digith 10.9mm (KR)	
out ceb	Dynamic three colours red, green and amber or 1 fixed selectable colour	
	Secondary Display: 4-digit h 6mm (KR)	
Inputs		
Universal Input Thermocouples: J (-50 +1000°C/-58 +1832°F), K (-50 +1370°C/-58		
onversar input	+2498°F),	
	S/R (-50 +1760°C/-58 +3200°F),	
	T (-70 +400°C/-94 +752°F)	
	Infrared Sensors: J or K	
	RTC: Pt100 3 wires and Pt1000 2 wires (-200 +850°C/-328 +1562°F)	
5	Thermistors: PTC KTY81-121 (-50 +150°C/-58 +302°F), NTC 103-AT2 -	
	50 +110°C/-58 +230°F)	
	Linear Signals: 0/12 60Mv, 0/4 20Ma, 0/1 5V, 0/2 10V	
Measurement Accuracy	±0.5% span ± digit, (±1 digit for T/c type S)	
Digital Inputs	2 Digital inputs	
Outputs		
Up to Four	OUT1: Relay SPOT-NO 4A/240 Vac or voltage output for driving SSR,	
	10.5V min @ 15mA ±10% or analogue 4 20Ma / 0/2-10Vdc galvanically	
	isolated (option)	
	OUT2 and OUT3: Relay SPST-NO 2A/240Vac or voltage output for driving	
	SSR, 10.5 V min. @ 15Ma ±10%	
	OUT4 Programmable: Voltage output for driving SSR, 10.5 V min. @	
	22Ma ±10% or transmitter power supply or 2 <sup>nd</sup> Digital Input	
Functional		
Control	PID single or double action, On/Off with Neutral Zone. Autotune,	
	Selftune, and Evotune. Overshoots control	
Alarms	3 alarms configurable as absolute, deviation, band	
Set Point	4 set points selectable	
Serial Communications	TTL (standard) + RS485 (optional), protocol: MODBUS RTU	
Communication Speed	1200 3400 baud selectable (8 bit + 1 stop bit, no parity)	
Work hours/day counter	With two simultaneous functions: cumulative non-erasable and	
	resettable with alarm (option)	
Power Calculation	Instant power, hourly consumption during program running (option)	
Evogreen	Time based display switch-off, selectable	
Programmer (Optional)	Up to 4 segments with "guaranteed soak"	
Timer (Optional)	Independent with 5 operation modes	
General		
Power Supply	24 Vac/dc ±10%, 100 240 Vac/dc (-15 +10%), 50/60 Hz, power	
	consumption 7 VA max	
Temperature	Operating Temperature: 0 50°C (32 122°F)	
CONTRACTOR OF A DESCRIPTION	Storage Temperature: -20 700°C (-4 +158°F)	
Relative Humidity	20 95 RH% with no condensation	
Conformity	EN 61010-1, EN 61326	

## **MEASUREMENTS**



## ELECTRICAL CONNECTIONS





N = With removable terminal block (fixed part only)

USE THIS GUIDE TO FIND THE PART NUMBER OF THE PRODUCT YOU WANT