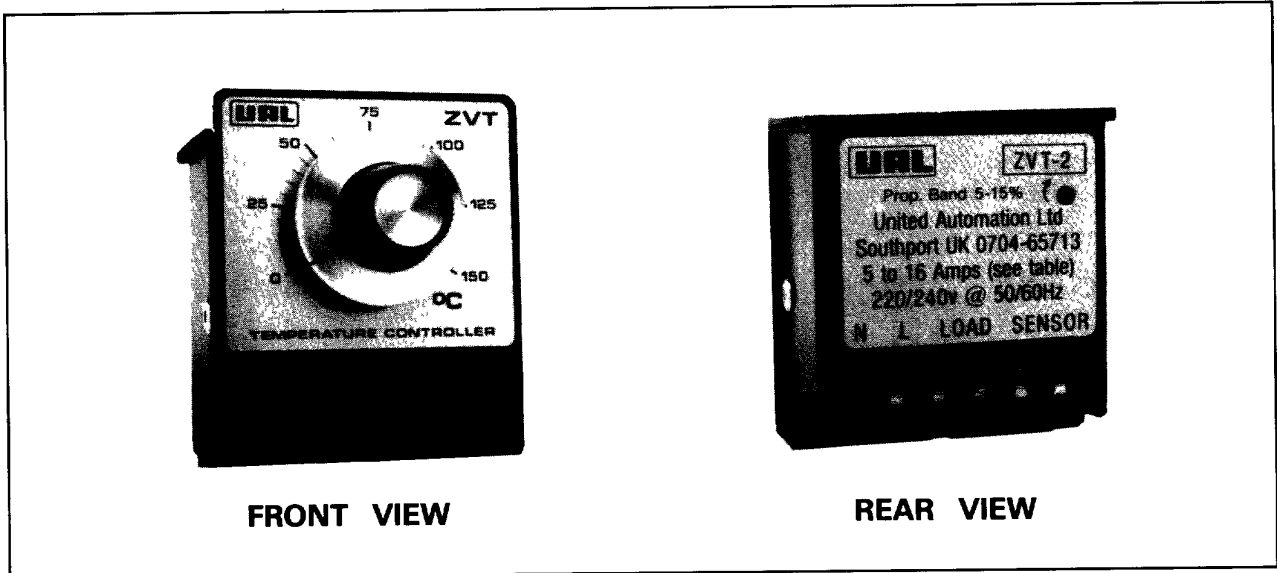




16 AMP 0-150°C OEM
TEMPERATURE CONTROLLER

ZVT-1
ZVT-2

New technology enables this economical, energy saving, OEM temperature controller to combine linear precision sensing with powerful output in a compact, single hole fixing enclosure. It outperforms conventional thermostats by switching energy in complete mains cycle packets, eliminating radio and mains borne interference. Proportional self adjustment of power every 40 seconds gives close temperature control of loads up to 16 Amps. Simplified electronic integrated circuit design and absence of switch contacts ensures long life reliability.



FRONT VIEW

REAR VIEW

OEM Features	General Features
<ul style="list-style-type: none"> Low cost in volume Compact & powerful One 10mm fixing hole Detachable scale 	<ul style="list-style-type: none"> Precision thick film sensor Proportional accurate control Interference free switching No switch contacts

ORDERING CODE
 Build up type number as follows:

1. ZVT	=	ZVT family	Example:	ZVT-2-E
2. 1 or 2	=	120v or 240v supply	ZVT	_____
3. E or X	=	Enclosed or exposed sensor	240v	_____
			Enclosed sensor	_____

UNITED AUTOMATION LTD
 FIRST IN POWER ELECTRONICS

237 LIVERPOOL ROAD, BIRKDALE,
 SOUTHPORT PR8 4PJ, ENGLAND

Telephone : Southport (0704) 65713
 Telex : 67464 UNITAM
 Fax: (0704) 69760

SPECIFICATION

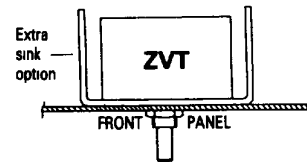
Power Supply	6VA 120v or 240v (2 models) —15% +10%. 50/60Hz
Sensors	(2 types) thick film composition linear NTC 10k@25°C ± 1%
Ambient temperatures	Sensor —50 to +175°C, controller —50 to +70°C
Sensor leads	50 ohms max external resistance
Output triac	16A max, heatsink/ambient dependent (see table)
Surge rating	300A max single cycle, 450 amps ² seconds.
Calibration accuracy	3% of full scale
Control stability	Typically within 1% of full scale, application dependent
Scale 54 x 46mm	0-150°C over 50mm scale length, linear, adhesive backed
Dimensions in mm	Rear of panel 55 wide, 58 high, 32 deep
Weight	150 grms
Screw terminals	6 clamp type, 2.5mm ² max + earth screw
Proportional band	5 to 15% (rear screw adjust) on 40 second cycle time
Fixing hole	One 10mm diameter panel hole
Sensor protection	Open or short sensor circuit turns output off

MAXIMUM OUTPUT in AMPS

Maximum ambient temp.	20°C	50°C	70°C
Without extra heatsink	10	7	5
+ Heatsink 100x100x3mm	14	12	10
+ Heatsink 170x170x3mm	16	16	15

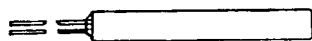
INSTALLATION DATA

Relating current, temperature & sink



TYPE E

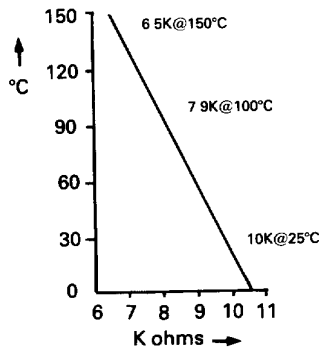
ENCLOSED SENSOR



Probe length	50mm
Probe diameter	6.4mm
PTFE tails length	1000mm
Liquid time constant	14 seconds
Probe case	stainless steel

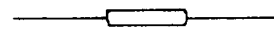
RESISTANCE v TEMPERATURE

BOTH SENSORS



TYPE X

EXPOSED SENSOR



Body length	3.8mm
Body diameter	1.7mm
Overall length	54.6mm
Air time constant	3 seconds
Body material	moulded composition

WARRANTY

Two years warranty, as detailed in UAL Standard Conditions of Sale. Thermal or electrical application faults causing a faulty triac junction, represented by low resistance or open circuit between the power cables of the unit, are excluded from warranty. The right is reserved to change, without notice, specifications and prices.

UAL

UNITED AUTOMATION LTD.

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