



**ZVT-16A- 0-150°C.
TEMPERATURE CONTROLLER
AND SENSOR INSTALLATION**

**ZVT-E-RGT10K
INSTALLATION**

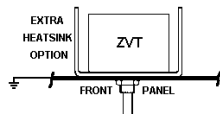
X10234

INSTALLATION

1. Peel the back from the adhesive dial and fit it over a 10mm panel hole.
2. See the table below for heatsink requirements and expected ambient temperature, to calculate the maximum current rating.
3. Check that the voltage rating and the sensor type is correct.
4. Apply a thin smear of heatsink paste for good thermal coupling and insert unit through the 10mm panel hole. Affix the dial and extra heatsink as appropriate, ensuring equipotential bonding (earth bonding) and tighten the front nut.
5. Before fitting the control knob, turn the temperature control fully anti-clockwise to the mechanical stop.
6. Fit and align the control knob to coincide with the dial mark below 0°C.
7. Make wire connections to rear terminals. To monitor supply and load conditions fit neons across the relevant terminals.

MAXIMUM OUTPUT RMS CURRENT (A)

Max.ambient temperature	20°C	50°C	65°C
Without extra heatsink	10	7	5
+Heatsink 100 x 100 x 3mm 14	12	10	10
+Heatsink 170 x 170 x 3mm 16	16	15	15



OPERATION

1. Note that the unit will not operate or indicate correctly or the triac will not 'latch on', with loads of less than 200W.
2. Set prop. band (via rear panel) fully anti-clockwise.
3. Switch on and turn the dial to the required temperature and allow the system to heat up to a stable state. If the temperature is unstable then turn the prop. band clockwise in small steps over several minutes until stable conditions are obtained, which will be characterised by a steady output on/off ratio.
4. If the output remains off then check for an open or short circuit in sensor circuit. If the output stays on then check the position of the sensor relative to the heated zone. Correct sensor resistance is 10.7K @ 0°C, 10K @ 25°C and 7.9K @ 100°C.
5. Do not use megger or other high voltage equipment as the unit's voltage rating may be exceeded and damage to the internal components may occur.

FUSING

It is recommended that semiconductor, fast-acting type fuses and circuit breakers (semiconductor-MCB) be used for unit protection. On initial operation some loads may need an increased factor of safety for unit and/or device protection (see SRA data sheet for further information).

CE MARKING

This product family carries a CE marking. For information see recommendation section and contact our sales desk.

INTRODUCTION

The ZVT-E-RGT10K sensor is an NTC-type temperature sensing resistor sealed in a stainless steel probe with 1M PTFE tails and earth lead.

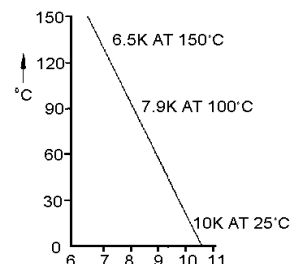
APPLICATIONS

Use with ZVT temperature controller (see recommendations datasheet - X10211).

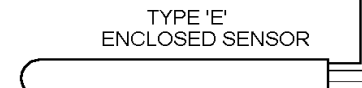
INSTALLATION, DIMENSIONS AND SPECIFICATIONS

RoHS Compliant - to Directive 2002/95/EC

RESISTANCE v TEMPERATURE



THIS UNIT MUST BE EARTHED



PROBE LENGTH	50 mm
PROBE DIAMETER	6.4mm
OVERALL LENGTH	1METRE
LIQUID TIME CONSTANT	14 SECONDS
PROBE CASE	STAINLESS STEEL
CABLE	7/0.2 PTFE, BSG210

NOTE: Good thermal bonding of sensor is required, where appropriate, to ensure controller performance reaction time (i.e. for thermal bonding of sensor to metal heatsink, it is recommended that heatsink paste is used).

RECOMMENDATION

Other documents, which may be appropriate for your applications, are available on request.

CODE	IDENTITY	DESCRIPTION
X10229	RFI	Filter recommendation - addressing EMC directive.
X10213	ITA	Interaction, uses for phase angle and for burst fire control.
X10255	SRA	Safety requirements - addressing the Low Voltage Directive (LVD) including: thermal data/cooling, live parts warning, earth requirements and fusing recommendations.
X10211	ZVT-16	16A power controller data sheet
AP02/4	COS	UAL conditions of sale

NOTE It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. Wiring Regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding safety of electrical equipment. (For International Standards refer to I.E.C. Directive I.E.C. 950).

ORDER CODE: State part number: A26011 - ZVT-E- RGT2-10 Enclosed sensor.
A26012 - ZVT-X- RGT2-10 Bead sensor.



Southport Business Park
Wight Moss Way
Southport, PR8 4HQ
ENGLAND

UNITED AUTOMATION LIMITED

Tel: 0044 (0) 1704 – 516500
Fax: 0044 (0) 1704 – 516501
enquiries@united-automation.com
www.united-automation.com

Page No. 2 of 2

Issue 3

Date 16/12/03

