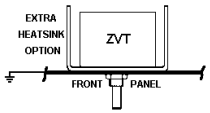
UNITED AUTOMATION	**ZVT-16/25-IF CONTROLLER & 10K3A1-SENSOR INSTALLATION**	**ZVT-16/25-IF INSTALLATION X10612**

INSTALLATION INSTRUCTIONS

1. Peel adhesive back off dial and fit over 10mm panel hole.
2. See the table below for heatsink requirements & expected ambient temperature, to calculate the maximum current rating.
3. Check that the voltage rating and sensor type is correct.
4. For ZVT-16-IF only: Apply a 'thin smear' of heatsink paste for good thermal coupling and Insert unit through 10mm panel hole. Affix dial and extra heatsink as appropriate, ensuring equipotential bonding (earth bonding) and tighten front nut.
5. Before fitting control knob, turn temperature control fully anti-clockwise to the mechanical stop.
6. Fit and align control knob to coincide with the dial mark below 0ºC
7. Make wire connections to rear terminals. To monitor supply and load conditions fit neons across the relevant terminals.
8.

MAXIMUM OUTPUT rms CURRENT (A)

Max unit temperature	20ºC	50ºC	65ºC
Without extra heatsink	10	7	5
+ heatsink 100 x 100 x 3mm 14	12	10	
+ heatsink 170 x 170 x 3mm 16	16	15	



OPERATION

9. Note that unit will not operate or indicate correctly and triac will not latch on with loads of less than 200W.
10. Set Prop. Band (internally [25-IF] or via rear panel [16-IF]) fully anti-clockwise.
11. Switch and turn dial to required temperature and allow system to heat up to a steady state. If temperature is unstable turn prop. band clockwise in small steps over several minutes until stable conditions are obtained, characterised by a steady output On/Off ratio.
12. If output remains off, check for open or short circuit in sensor circuit, and if output stays on, check position of sensor relative to heated zone. The correct sensor temperature set points for resistance are:-

0ºC @	32.6kΩ
25ºC @	10kΩ
100ºC @	680Ω

RoHS Compliant

13. Do not use a megger or other high voltage equipment as the voltage rating may be exceeded and damage the internal components.

CE MARKING

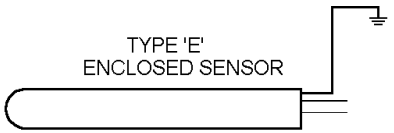
This product carries a "CE" marking. For further information, the see the RECOMMENDATIONS section or contact our sales desk.

APPLICATIONS

The ZVT-E-IF-10K3A1 is an NTC type thermistor, sealed in a stainless steel probe with 1m of white PTFE sensor connections and earth leads.
It is designed for use with ZVT-16-IF and ZVT-25-IF flicker inhibited power temperature controllers. See datasheets X10511 and X10542 respectively.

DIMENSIONS AND SPECIFICATIONS

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.

RECOMMENDATIONS

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; Fusing recommendations.
X10511	ZVT1/2-16	16A Zero voltage Temperature controller
X10542	ZVT1/2-25	25A Zero voltage Temperature controller
P01.1	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.T. (formally I.E.E.) regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding installation and safety of electrical equipment. Specific installers should refer to local and national regulations.

ORDER CODE

State part number: ZVT-E-IF-10K3A1 Enclosed, inhibited flicker sensor.

CE

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