

# **BURST FIRED TEMPERATURE CONTROLLER 16A**

**ZVT-16** 

X10211

### INTRODUCTION

This economical, energy saving, OEM temperature controller, combines precision sensing to give powerful output in a compact, single hole fixing enclosure. It outperforms conventional thermostats by switching energy in complete mains cycle packets, at zero voltage, eliminating radio and mains borne interference. Proportional self-adjustment gives accurate temperature control of loads up to 16A, with appropriate installation and the use of an additional heatsink (see cooling requirements). The controller is supplied with a control knob and ZVT scaled dial (0 to 150°C). The NTC temperature sensor is ordered separately and is not included with the unit.

NOTE: It is important that the sensor is used with a bonded earth (see installation wiring).

#### **APPLICATIONS**

Suitable for temperature control of single-phase resistive heaters, ovens, dryers, hot plates and flexible heater mats.

**Directive** 

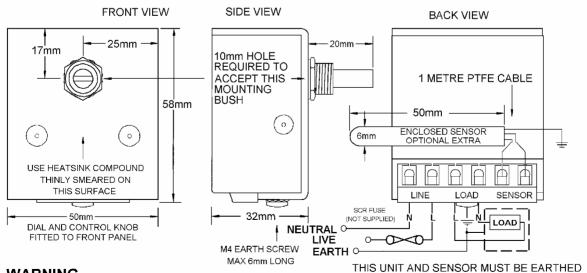
# **FEATURES**

- Accurate proportional control.
- Compact and easy to use.
- Simple installation with or without heatsink.
- Discrete components giving high reliability.
- Fail safe sensor input.



## **INSTALLATION**

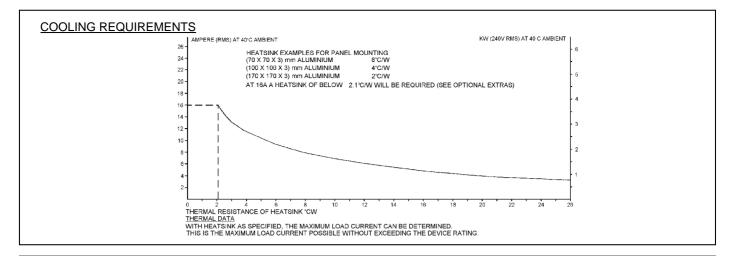
### **DIMENSIONS AND CONNECTIONS**



#### WARNING

LIVE TERMINALS - SWITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICE WORK. THE SENSOR IS NOT ISOLATED FROM THE MAINS SUPPLY. ADDITIONAL MEASURES SHOULD BE TAKEN TO ENSURE SAFETY IS MAINTAINED UPON INSTALLATION AND COMMISSIONING. NOTE FOR HEATSINK MOUNTING.

A 10mm HOLE IS REQUIRED TO ACCEPT MOUNTING BUSH. USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING.



#### **SPECIFICATIONS**

Maximum RMS on-state current Peak single cycle surge current I <sup>2</sup> t for fusing Maximum line voltage +/- 10%@ 50/60Hz (ZVT2/ZVT1) Maximum power consumption	16A 200A 128 A <sup>2</sup> s 230V/110V AC 6W	Operation temperature range Storage temperature range Control stability (typical) Weight NTC type sensor	0 to +65°C 0 to 65°C 1% 125g Must be earthed
Temperature control range	0-150°C	c type conce.	
Calibration accuracy (of full scale)	3%	further dimensions	
Isolation voltage (typical)	2500V rms	Shaft diameter (1/4 inch)	6.3 mm
Proportional band (rear screw adjust , "typical")	5-15%	Shaft projection from bush	13.0 mm
Scale (54 x 46mm, linear & adhesive backed)	0 to +150°C	Bush length	7.0 mm
Maximum c.s.a. cable entry	2.5mm <sup>2</sup>	Fixing hole diameter	10.0 mm

#### **FUSING**

It is recommended that semiconductor, fast acting type fuses or circuit breakers (Semiconductor/ MCB), be used for unit protection. On initial operation, some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA Data sheet for further information.

#### **CE MARKING**

This product family carries a "CE" mark. For information see recommendation section and contact our sales desk. See Declaration of Conformity.

#### RECOMMENDATION

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

CODE IDENTITY DESCRIPTION

X10229 RFI Filter recommendations - 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.

X10234 ZVT-E-RGT10K Sensor and ZVT installation data sheet

AP02/4 COS UAL Conditions of sale.

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

ORDER CODE: ZVT (110V /230V)-16A- (temperature range − 0-150 °C)

State part number: ZVT (1/2)-16-(0-150 °C) ) − Please select required voltage

Optional extras: ZVT-E-10K3A1 Enclosed Sensor, Heatsink compound.



# **UNITED AUTOMATION LIMITED**

1Southport Business Park Kew Southport, PR8 4HQ ENGLAND Tel: 0044 (0) 1704 – 516500 Main Tel: 0044 (0) 1704 – 516516 Sales Fax: 0044 (0) 1704 – 516501 Enquiry@united-automation.com www.united-automation.com



This document was created with Win2PDF available at <a href="http://www.daneprairie.com">http://www.daneprairie.com</a>. The unregistered version of Win2PDF is for evaluation or non-commercial use only.