



# UNIQUE HEATED PRODUCTS

## Get your quote today! 586-783-5725

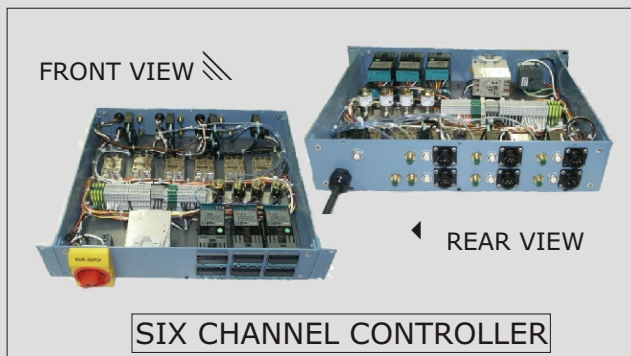
### TEMPERATURE CONTROLLER PACKAGES

All **Unique Heated Products'** heated devices require a method of controlling the heaters to the required set point. Where accuracy and control are essential to test results, a commonly used built-in, thermostatic type control device just isn't sufficient. **UHPI's Temperature Controller Package** is the answer. Manufactured to suit a wide range of applications and housing styles (i.e. NEMA type enclosure, Rack Mount, etc.), the units are available in your choice of 1 to 8 control channels. Thermal integrity is our business.

Meet tomorrow's regulations today - CALL **UNIQUE**

19" RACK MOUNT STYLE

PANEL MOUNT STYLE



N.E.M.A. ENCLOSURE STYLE



### MANY PROGRAMMING OPTIONS

- Full P.I.D. Function
- Ramp-Soak Ethernet Com Port
- Alarm Out Proportional Cycle Time
- Error Messages
- Power Strategy Sensor Selection
- Auto Tune Heat Cool Strategy Configuration Improving Controller

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22797 Macomb Industrial Dr.  
Clinton Twp. MI 48036



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## TEMPERATURE CONTROLLER PACKAGES

### BASE CONTROLLER SPECIFICATIONS

#### INPUT SENSOR TYPES

Thermocouple: 9 types (B E J K L N R S T)  
Standards: IPTS/68DIN 43710  
CJC Rejection: 20:1 {0.05i/iC} typical  
External Resistance: 100 W maximum

#### RESISTANCE THERMOMETER

RTD-2/Pt100 2 wire Standards: DIN 43760 {100 W0iC/138.5W100iC Pt}  
Bulb Current: 02mA maximum

#### DISPLAYS

Main 4 digits high brightness Green LED: 10mm {0.40} high  
Digital Range: 199 to 9999  
Hi-Res Mode: 199.9 to 999.9  
LED output indicators: flashing SP1 square - green  
SP2 round - red

#### ENVIRONMENTAL

Altitude: up to 2000M  
Pollution: Degree LI  
Installation: Categories II and III  
Ambient Temperature: 0° to 50° C {32° to 130° F}  
Protection: NEMA 4X, Lp66  
EMC Immunity: EN50082-2  
EMC Emission: EN50081-1  
FCC Rules: 15 subpart J Class A  
Mouldings: Flame retardant polycarbonate  
Weight: 110 g {3.9 oz} - single channel

#### OUTPUT DEVICES

SSd/SSd1/SSd2 Solid state relay driver to switch a remote SSR VDC +0/-15% 15mA

#### MINIATURE POWER RELAY

non-isolated rLY and rLY1:2A/250ac resistive load Form A/SPST Contacts {AgCdO} Alarm contact

#### KEYPAD

3 elastomeric buttons

#### HUMIDITY

80% RH maximum

### APPLICABLE TO ALL INPUTS

SM = SENSOR MAXIMUM

Calibration accuracy: -0.25% SM - 1iC  
Series mode rejection: 60dB, 50-60Hz  
Sampling Frequency: input 10Hz, CJC 2 seconds  
Temperature coefficient: 501PP/mic  
Common mode rejection: Negligible effect up to 140dB, 240V, 50-60Hz  
Reference conditions: 21iC - 22iC rated voltage after 14 minutes setting time



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**TEMPERATURE CONTROLLER PACKAGES  
ORDERING GUIDE**

EXAMPLE: CTR-2162-A-AK-10-B-4-AX-E144-000

FIELD NUMBER:                    ^   ^   ^   ^   ^   ^   ^   ^   ^

   1   2   3   4   5   6   7   8   9

**1. CONTROL MODEL**

- 2162-CAL 3300 S.S. RELAY (MOST COMMON)
- 2219-CAL 3300 MECH RELAY
- 1363-FUJI S.S. RELAY
- 1364-FUJI MECH RELAY

**2. HEATER VOLTAGE**

- A-120 VAC
- B-230 VAC
- G-12 VDC
- H-208 VAC
- I-480 VAC
- M-24 VDC

**3. INPUT SENSOR TYPE**

- A-THERMOCOUPLE (J OR K) (MOST COMMON)
- B-THERMISTOR
- C-RTD (PT100)
- D-ADJUSTABLE THERMISTAT
- E-SELF LIMITING

**4. CURRENT PER CHANNEL**

- AMOUNT OF CURRENT CAPABLE PER RELAY, PER CHANNEL IN AMPERES

**5. ENCLOSURE TYPE**

- A-OPEN PANEL MOUNT
- B-NEMA 12 (MOST COMMON)
- C-NEMA 4
- D-19 INCH RACK
- E-CLASS 1 DIV 2

**6. NUMBER OF CHANNELS**

- 1, 2, 3, 4, ETC.

**7. DEVICE CONNECTOR TYPE**

- A-7 PIN CONNECTOR (13 AMP MAX)
- B-7 PIN CONNECTOR (45 AMP MAX)
- D-LOOSE WIRE W/STRIPPED ENDS
- E-NEMA 5-15 AMP RECEPTACLE
- F-FLEXIBLE CONDUIT (HARD WIRE)
- G-MIL SPEC CON. (AMPHENOL)
- H-CLASS 1 DIV 2
- I-CLASS 1 DIV 1
- J-3 PIN MOLEX CON (11 AMP MAX)
- K-NEMA 6-30 AMP RECEPTACLE
- L-REMOTE T-STAT
- M-FEMALE TWIST LOCK W/TC
- N-9 PIN CONNECTOR (13 AMP MAX)
- R-CONNECTOR BOX W/7 PIN CON.3.

**8. POWER CABLE TYPE (LENGTH)**

- D-LOOSE WIRE
- E-SO CORD W/NEMA 5-15 PLUG
- F-FLEXIBLE CONDUIT
- H-CLASS 1 DIV 2
- I-CLASS 1 DIV 1
- K-SO CORD W/NEMA 6-30 PLUG

**9. OPTIONS**

- FOR ALL OPTIONS PLEASE SEE OPTIONS PAGE OR CONTACT UHP SALES AND TECH SUPPORT



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