



## *Temperature Control Power Panels*



### ***PRODUCT DESCRIPTION***

Temperature Control Panels for a wide variety of applications are designed and engineered by National Plastic Heater. Entire systems are available for the most complex process heating control applications that require electric heaters, temperature controls, and temperature sensors. Panels can be built with as little as one zone to as many as 36 or even more temperature control points

In house calibration and servicing provides a full, single source for all your requirements. From Custom Temperature Control Panels that are needed to operate in 60°C environments, to laboratory controllers that are to maintain temperatures within +/- 0.01°C.

These Custom Temperature Control Panels, or Power Panels could be made to withstand wash downs with corrosive chemicals with all components on the panel conforming to IP 65 and NEMA 4X. Integration of components for steam booster heaters or recirculation heaters with flow fail safe interlocks are also available.

Applications include temperature controls with Hi temperature fail-safe alarms (FM approved), Loop break alarms, Heater break alarms, heater Current Indication and Shorted Output Device (contactor) alarms or annunciation.





### Features:

- Quick delivery
- State-of-the-art technology and engineering
- Integration of temperature, level, pressure, motor and motion control
- Hydro Approved and CSA or C UL components used throughout
- NEMA 4X, NEMA 4 and NEMA 7 explosion proof panels available
- Versatile precision LAB control, plant process or plant system engineering
- Easy adaptation to existing plant switch gear or specification

### Ordering Information:

#### **TYPE of POWER CONTROL**

SCR = SCR Power Controller

MDR = Mercury Relay

MEC = Mechanic Relay

#### **VOLTAGE**

1=120 volts, 2=208/240, 3=370/380, 4 = 460/480, 6=575/600

#### **PHASE**

S = Single T = Three

#### **ENCLOSURE NEMA RATING**

01 = General Purpose NEMA 1

3R = NEMA 3R Weather Resistant

04 = Moisture Resistant NEMA 4

4X = Corrosion/Moisture Resistant NEMA 4X

47 = Moisture/Explosion Proof NEMA 4/7

07 = Explosion Resistant NEMA 7

12 = Dust and Oil Resistant NEMA 12

**SIZE of TEMPERATURE CONTROLLER**

6 =1/16 DIN, 8=1/8 DIN, 4=1/4 DIN, 3=32 DIN

**TYPE of INPUT/SENSOR**

R=RTD, 4=4 TO 20 Amps, 1= 1 to 5 VDC, X=Special

Thermocouples specify J,K,R,S,T,E,N

MAXIMUM SYSTEM kW System Power

**TYPE of HI LIMIT**

D = Digital Hi Limit FM Approved

A = Analog Hi Limit Back Panel Mount

**ALARMS**

H = Aux. Hi Alarm (Deviation or Process) with Mechanical Relay Fail Safe

B = Heater Break Alarm

L = Loop Break Alarm



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**Terms and conditions posted below apply:**

**<http://www.nphheaters.com/terms.htm>**

