

## *HCS Custom Control Panels HCS*



Custom Control Panels for a wide variety of applications are manufactured by Heaters Controls And Sensors. From Custom 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 Control Panels could be made to withstand washdowns 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.

### **Custom Control Panels 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

***(519) 686 2715 Fax (519) 686 8159***

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# ***HCS Heaters Controls & Sensors Ltd HCS***

## **Custom Control Panels Ordering Information:**

EXAMPLE : CCP – SCR – 1 – S – 04 – 6 – J – D – B

CCP = Custom Control Panel SCR power control 120 volts single phase

NEMA 4 housing 1/16 DIN temperature controller Type J thermocouple input

Digital Hi Limit & Heater Break Alarm

### **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**

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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