

Custom Control Panels



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
60- Meg Dr Unit 13 London Ont N6E 3T6

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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Stock OR Quick Ship Control Panels

Part #	VOLTS	KW	PH	Control	Alm	Limit	Sensor	Stk	Name
CP123A	120	3	1	MR/SSr	Y	N	JKRST	Y	
CP246A	240	6	1	MR/ssr	Y	N	JKRST	Y	
CP289A	208	8.5	3	MR/ssr	Y	N	JKRST	Y	
CP2410A	240	10	3	MR/ssr	Y	N	JKRST	Y	
CP2420A	240	20	3	MR/ssr	Y	N	JKRST	Y	
CP277A	270	6.7	1	MR/ssr	Y	N	JKRST	Y	
CP3816A	380	16	3	MR/ssr	Y	N	JKRST	Y	
CP3830A	380	30	3	MR/ssr	Y	N	JKRST	Y	
CP4820A	480	20	3	MR/ssr	Y	N	JKRST	Y	
CP4840A	480	40	3	MR	Y	N	JKRST	Y	
CP4880A	480	75	3	MR	Y	N	JKRST	Y	
CP6080A	600	25	3	MR/SSR	Y	N	JKRST	Y	
CP6050A	600	50	3	MR	Y	N	JKRST	Y	
CP6090A	600	90	3	MR	Y	N	JKRST	Y	

The above panels have Dual display PID controllers with FUZZY logic

That can be enabled or switched off.

NOTE : MR = Mercury relay or SSR = Solid State Relay or SCR

CO = Contactor Optional

AL = High Alarm Will Isolate Secondary Relay

Works Off Main controller

Hi Limit = Digital Hi Limit Can be Installed as an option for over temperature

These are FM approved and will take 1 to 2 Days for installation

All above Panels are with Disconnect switches and Fused for KW noted

FOR pricing email HCS at hcs@hcs77.com with required Part number