



## 6012 Series Heater Control Panel

The Integrated Flow Solutions 6012 Series Electric Heater Control Panels offer convenient, economical control of resistive loads. A broad list of configuration options allow the 6012 series control panel to fit most common electric heater control requirements. These pre-engineered, pre-wired panels require only sensor, load and power supply connections. The 6012 Series Heater Control Panel totally eliminates the engineering, design, component procurement, assembly and testing steps required to build a control panel.



### Industries



REFINING



CHEMICAL



PIPELINE



OFF-SHORE

### Benefits

SCR power control efficiently and accurately proportions power to the resistive heating load. Unlike traditional contactor control, SCR's deliver:

- Reduced Power Cost
- Extended Heater Life
- Lower Maintenance
- Improved Process Products
- Stable Process Temperature
- Complete Control Function Testing
- 24/7 Customer service

### Custom Configurations

Integrated Flow Solutions offers customized heater control panels to meet customer specific applications around the world. Call for more information

### Standard Features

- Painted Steel NEMA 12 Enclosure
- 3-Leg, 2-wire Zero-cross SCR Power Control protected by fast acting fuses
- Fan Cooling
- Load Fusing for up to 8 Circuits
- Lockable Main Power Disconnect
- 120 Volt Control Power transformer with primary and secondary fusing
- Front Panel Power and Alarm Indicator Lights
- Element Over-temperature Controller Manual Reset and Safety Contactor
- Dry Contacts for External Run (Shut-down) Permissive
- Field Selectable Process or Differential Temperature Control
- Front Display Process Temperature and Set Point(s)
- Convenient Wall Mount Design

### Optional Features

- Process Temperature Limit Controller
- Shorted SCR Detection
- Ground Fault Monitor & Shutdown with Illuminated Reset
- Ammeter & Voltmeter
- Floor Stand
- 1 to 8 Circuits

# 6012 Series Heater Control Panel Configuration

## Model

**6012** Three Phase 2-Leg Zero Cross SCR Heater Control Panel

### Ordering Information

Complete the Model Number using this Matrix

UL Listed Three Phase SCR Heater Control Panel. Features: Fast acting fuses for SCR Protection, Factory pre-wired for quick installation, 120 VAC Control power Transformer with Primary & Secondary Fusing, NEMA 12 rated Enclosure for Indoor Installations, Forced Air Cooling, Lockable Main Power Disconnect Switch, Front Panel Alarm Lamp. Options Include: Process and Hi-Limit Controllers, Ground Fault Monitor, Sub-Circuit Fusing for Heater Load, Shorted SCR Detection, Ammeter and Voltmeter with Phase Selector Switch and Floor Stand Kit.

Code	Current at 40°C	Enclosure Dimensions
02	100 Amp	60" x 36" x 12"
03	150 Amp	60" x 36" x 12"
06	200 Amp	60" x 36" x 12"
08	300 Amp	60" x 36" x 12"
10	400 Amp	72" x 36" x 12"
12	550 Amp	72" x 36" x 12"
14	650 Amp	72" x 36" x 12"
15	800 Amp	72" x 72" x 12" Floor Mount
16	1000 Amp	72" x 72" x 12" Floor Mount

Code	Voltage	Code	Voltage
1	208 Vac	4	415 Vac
2	240 Vac	5	480 Vac
3	380 Vac	6	575 Vac

Code	Process Over-temperature Controller Option
0	None
1	Process High Temperature Shut-down Controller

Code	Ground Fault/Shorted SCR Detection
0	None
1	Shorted SCR Detection
4	Ground Fault Monitor & Shorted SCR Detection

Code	Options
0	None
4	Ammeter & Voltmeter
5	Ammeter, Voltmeter & Floor Stand

Code	Load Fusing Option
9010(*)	8 Amps/Circuit (10 Amp Fuse)
9015(*)	12 Amps/Circuit (15 Amp Fuse)
9020(*)	16 Amps/Circuit (20 Amp Fuse)
9025(*)	20 Amps/Circuit (25 Amp Fuse)
9030(*)	24 Amps/Circuit (30 Amp Fuse)
9035(*)	28 Amps/Circuit (35 Amp Fuse)
9040(*)	32 Amps/Circuit (40 Amp Fuse)
9045(*)	36 Amps/Circuit (45 Amp Fuse)
9050(*)	40 Amps/Circuit (50 Amp Fuse)
9060(*)	48 Amps/Circuit (60 Amp Fuse)
9070(*)	56 Amps/Circuit (70 Amp Fuse)
9080(*)	64 Amps/Circuit (80 Amp Fuse)
9090(*)	72 Amps/Circuit (90 Amp Fuse)
9100(*)	80 Amps/Circuit (100 Amp Fuse)
9110(*)	88 Amps/Circuit (110 Amp Fuse)
9125(*)	100 Amps/Circuit (125 Amp Fuse)
9150(*)	120 Amps/Circuit (150 Amp Fuse)
9175(*)	140 Amps/Circuit (175 Amp Fuse)
9200(*)	160 Amps/Circuit (200 Amp Fuse)

### Technical Notes:

1. Load fuse rating reflects 125% of actual load amps.
2. Ventilated NEMA 12 enclosure derates enclosure to NEMA 1

6012 - 02 5 0 0 0 - 9025(5) Typical Model Number