

### **Intelligent Heat Trace Control Panel**

Providing the right heat trace control solution can be tricky. There are a full range of options to control your heat trace system from single thermostat to a fully integrated control system with ground fault detection, main and distribution breakers, preventive diagnostic, alarms, and communicate with your existing plant control system through Modbus or Allen-Bradley EtherNet/IP.



iTraceCP is high level integrate heat trace control package that is customized to your needs. Our controller continuously monitors and controls your HT circuits. Monitoring the electrical current usage as well as the temperature, iTraceCP will alarm you when your heat trace is not working. iTraceCP is also proactive. Our system will test your circuits on a daily basis notifying of any faults so preventive maintenance can be scheduled.

iTraceCP has several unique features. Power Limiting, which limits the inrush current, and Staggered Start, which stagger the power start-up of circuits. iTraceCP provides the all

important NEC required ground fault circuit. iTraceCP can be designed to provide heating circuit up to 100A @ 600 VAC and up to 100- heat trace circuits in one package. iTraceCP can also communicate with your existing centralized control system via Modbus, Profibus or Allen Bradley Ethernet I/O or DH+ to provide a full range of information about the condition of your heat trace system.

What does it cost when your heat trace fails?

#### **Operator Interface**

iTraceCP provides an easy-to-use display mounted on the outside of your system. All of the temperature and current set points can be easily changed from the display. All of the alarm messages and system statuses are available on the display as well.

In the interest of safety and convenience, the display has been designed so one can operate the system without opening the panel door.

#### Features

The TraceCheck early warning system periodically checks your circuits and alerts you to potential problems with temperature, heater current and ground fault current, even on circuits that are not in use.

Your choice of local or remote interface offers you a level of flexibility you won't find any-where else.

A user-friendly display interface means you can easily monitor all variables, form on convenient location.

The Staggered Start feature reduces initial load on your system by staggering the power start-up of each circuit.

Maintains your heat trace system autonomously, 24 hours a day, 365 days a year.

Provides you with maximum performance and reliability.

Warns you of potential problems before they become critical.

Offers you the most flexible and cost-effective solution on the market today.

PowerLimit reduces the high inrush current associated with selfregulated cable, eliminates oversized breakers and allow the user to set the maximum average heater current of each circuit.

Saves you money by alerting you to problems that could lead to unnecessary product losses and process shutdowns.



## **Performance Specifications**

Temperature Input					
Range:	-50 degrees F to +500 degrees F				
Accuracy:	+/- 2.5 degrees F				
Repeatability:	+/- 1.5 degrees F				
Sensor:	100 ohm Pt 3 wire RTD				
	2 RTD's for freeze protection				
	systems (primary & backup)				
	RTD for each circuit for the				
	maintain systems				

Heating Switching	
Number of Circuit:	10, 20, 30 or 40 (standard)
Switch Rating:	30 A @ 280 VAC standard
Current	0.1 to 30A 3%+/- 0.2A
Measurement:	
GF Measurement:	10 to 1000mA 5%+/-2mA

Enable or Disable

0 to 90 Degree F

16 Characters Alphanumeric

Degrees F or Degrees C

On-Off or Proportional

**User Settable Option** 

Heater Name or Tag:

**Temperature Units:** 

Control Strategy:

Deadband:

Heater Status:

Alarm Messages					
Temperature:	High Temperature Alarm				
	Low Temperature Alarm				
Current:	: High Current Alarm				
	Low Current Alarm				
	High Current Trip				
Ground Fault Current:	GF Current Alarm				
	GF Current Trip				
Hardware:	Self-Failure				
	Switch Shorted				
	RTD Open				
	RTD Shorted				

### Ground Fault

Max Trip Time: 24.5 msec

Current Input	
Range:	0.1A to 100A per
Accuracy:	3% +/- 0.2 A

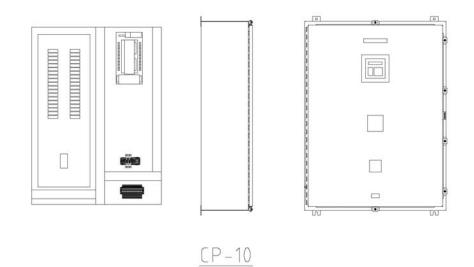
Optional Communication							
Protocol:	Modbus RTU (standard)						
Allen Bradlev Ethernet I/O							

User Interface				
Display:	20 Character x 2 Line Display			
Keypad:	9 Tactile Keys			
Contrast:	Adjustable			
Panel Indicators:	Power ON			
	Current heater display on			
	system & process alarms			
NEMA Rating:	4 or 4X per request			

Alarms	5				
Alarm Output:	Programmable NO or NC				
	One dry mech contract				
Mech - 120Vac @ 1A					
	DC - 30Vdc/0.1A				
Additional Options					
Purge Systems	Purge Kits for Class 1 Div 1				

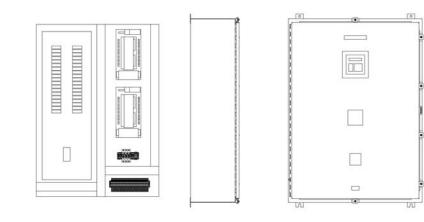


# **ITraceCP-10**



Heater Circuit:	10	Dimension:	42"x36"x 12" without legs		
Breaker:	30A	Max Main Disconnect:	225A		

# iTraceCP-20



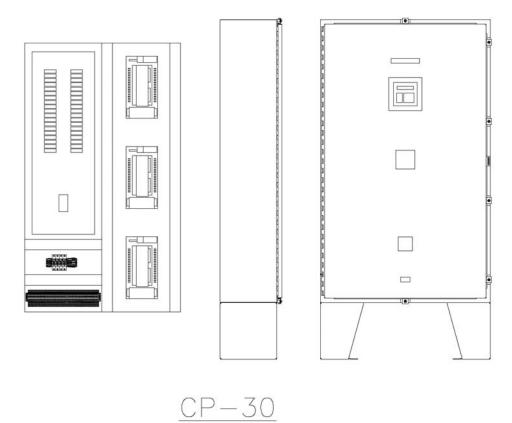
<u>CP-20</u>

Heater Circuit:	20	Dimension:	48"x36"x12" without legs
Breaker:	30A	Max Main Disconnect:	225A

iTrace www.heattracecontroller.com sales@heattracecontroller.com



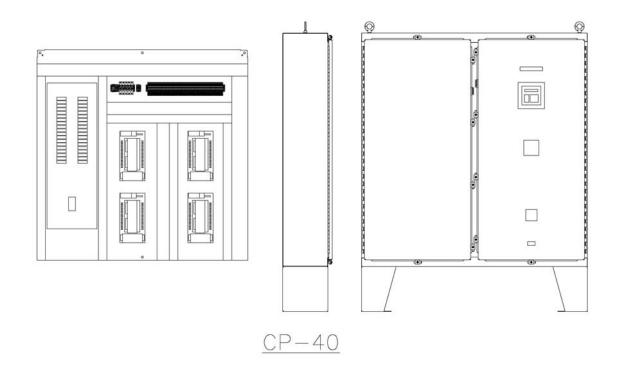
# iTraceCP-30



Heater Circuit:	30*	Dimension:	60"x36"x12" with legs
Breaker:	30A	Max Main Disconnect:	225A



## **ITraceCP-40**



Heater Circuit:	40*	Dimension:	60"x60"x12" with legs
Breaker:	30A	Max Main Disconnect:	225A

\* Twenty double pole breakers is the maximum number of breakers allowed in a single distribution panel. A single breaker can tie to multiple heating circuits. The sum of these heating circuits cannot be more than 30Amps. Optional panels can be designed to accommodate if necessary.



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