

intelliTRACE™ HTLS

Single-Loop Heat Tracing Line Sensing Control Panel

- Solid State Relay Output Rated 30 Amps
- Universal Inputs
- NEMA 4X Enclosure
- Ground Fault Alarm/Trip
- Programmable High/Low Temperature Alarms
- Programmable Low Current Alarm
- Optional RS-485 MODBUS® Communications
- 120, 208, 240, and 277 VAC

Description

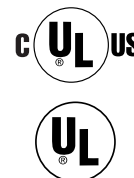
The Chromalox HTLS series panels are microprocessor based temperature control and monitoring units for heat tracing used in freeze protection and process temperature control applications.

This series of panels can be configured for ambient or line sensing control. The HTLS series implement a scalable design such that they can be configured with or without communications, ground fault monitoring or enclosure heater.

This unique format offers a design that can be tailored both by price and features to meet the most challenging demands in heat trace applications. For example: The HTLS series can be networked together via RS-485 MODBUS and the Chromalox Windows based Chromasoft SpecView software package. The optional ground fault monitoring addresses the national electric code requirements and reduces the cost of installing costly ground-fault circuit breakers. In the event of sub-zero temperatures the optional enclosure heater is available.

The HTLS series have programmable inputs (thermocouple, RTD, mA, VDC), On/Off or PID control, Auto-tune function, High/Low temperature alarms, current alarm, and sensor failure indication. The heat tracing circuit is switched by a 30 Amp solid state relay rated at 40°C ambient.

The Chromalox HTLS series panel comes ready to install and includes control and power wiring terminal blocks for field connections.



Technical Specifications

Supply Voltage:	120, 208, 240, and 277 Vac
Operating Environment:	32 - 104°F (0 - 40°C) -32 - 104°F (-34 - 40°C) with enclosure heater option
Communications:	RS-485 MODBUS®
Input:	Thermocouple J, K, L, N, R, S, RTD, Current, Voltage Field Programmable for C or F
Output:	Solid State Relay rated @ 30 amps @ 40°C
Current Alarm (Low):	0 - 30 amps in 1 amp increments
Ground Fault Alarm Trip:	5 - 100mA
Temperature Alarms:	Process, Deviation, Band, High/Low, Latching/ Non-Latching (Manual/Automatic Reset) Programmable.
Control Modes:	Field Selectable On/Off, PID, SMART

Applications

- Freeze Protection
- Fuel Gas Preheating and Superheating
- Fuel Oil Preheating
- Hydrocarbon and Chemical Product Piping
- Power Generation Plants

Model

HTLS IntelliTRACE 10000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Single Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Solid State Relay, Current Transformer, High-Low Temperature Alarms, Low Current Alarm, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Displays, Terminal Blocks for Field Connections, Loop Enable/Disable, NEMA 4X rated Enclosure (12.5"H x 10.5"W x 6"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring or Shutdown and RS-485 Communications.

Code Single Loop of Heat Trace Control

1 30 Amp Rating

Code Voltage

0 120 Vac
 1 240 Vac
 2 277 Vac
 3 208 Vac

Code Controller

0 1604-61230 Controller
 1 1604-61430 Controller with Communications

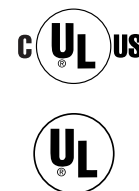
Code Ground Fault Monitoring

0 None
 1 GFI 120Vac (Includes Shutdown Contactor and Illuminated Reset switch)
 2 GFI 240Vac (Includes Shutdown Contactor and Illuminated Reset switch)
 3 GFI 277Vac (Includes Shutdown Contactor and Illuminated Reset switch)
 4 GFI 208Vac (Includes Shutdown Contactor and Illuminated Reset switch)

Code Enclosure Heater

0 None
 1 Thermostat Controlled Enclosure Heater

HTLS - 1 0 0 0 0 0 Typical Model Number



intelliTRACE™ HTLS

Dual-Loop Heat Tracing Line Sensing Control Panel

- **Solid State Relay Output Rated 30 Amps**
- **Universal Inputs**
- **NEMA 4X Enclosure**
- **Ground Fault Alarm/Trip**
- **Programmable High/Low Temperature Alarms**
- **Programmable Low Current Alarm**
- **Optional RS-485 MODBUS® Communications**
- **120, 208, 240, and 277 VAC**

Description

The Chromalox HTLS series panels are microprocessor based temperature control and monitoring units for heat tracing used in freeze protection and process temperature control applications.

This series of panels can be configured for ambient or line sensing control. The HTLS series implement a scaleable design such that they can be configured with or without communications, ground fault monitoring or enclosure heater.

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The HTLS series have programmable inputs (thermocouple, RTD, mA, VDC), On/Off or PID control, Auto-tune function, High/Low temperature alarms, current alarm, and sensor failure indication. The heat tracing circuit is switched by a 30 Amp solid state relay rated at 40°C ambient.

The Chromalox HTLS series panel comes ready to install and includes control and power wiring terminal blocks for field connections.

Technical Specifications

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Ground Fault Alarm Trip:	5 - 100mA
Temperature Alarms:	Process, Deviation, Band, High/Low, Latching/ Non-Latching (Manual/Automatic Reset) Programmable.
Control Modes:	Field Selectable On/Off, PID, SMART

Applications

- Freeze Protection
- Fuel Gas Preheating and Superheating
- Fuel Oil Preheating
- Hydrocarbon and Chemical Product Piping
- Power Generation Plants

Model

IntelliTRACE 20000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Dual Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Solid State Relays, Current Transformer, High-Low Temperature Alarms, Low Current Alarm, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Displays, Terminal Blocks for Field Connections, Loop Enable/Disable, NEMA 4X rated Enclosure (16"H x 14"W x 8"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring or Shutdown and RS-485 Communications.

Code Dual Loop of Heat Trace Control

2 30 Amp Rating

Code Voltage

0	120 Vac
1	240 Vac
2	277 Vac
3	208 Vac

Code Controller

0	1604-61230 Controller
1	1604-61430 Controller with Communications

Code Ground Fault Monitoring

0	None
1	GFI 120Vac (Includes Shutdown Contactor and Illuminated Reset switch)
2	GFI 240Vac (Includes Shutdown Contactor and Illuminated Reset switch)
3	GFI 277Vac (Includes Shutdown Contactor and Illuminated Reset switch)
4	GFI 208Vac (Includes Shutdown Contactor and Illuminated Reset switch)

Code Enclosure Heater

0	None
1	Thermostat Controlled Enclosure Heater

HTLS - 2 0 0 0 0 Typical Model Number

DUAL LOOP
CONTROL PANEL