

HTLS

PDS HTLS-M

Heat Tracing Line Sensing Control Panel

Series 8000/12000/24000

Features:

- Color Touchscreen Operator Panel
- Eight/Twelve/Twenty-Four Points of Independent Control
- NEMA 4/12 Enclosure
- High/Low Temperature Alarms
- Continuity Alarming
- Ground Fault Alarming/Trip
- Open Sensor Alarm
- Common Alarm Output
- Load Management
- Internal Power Distribution (Includes Circuit Breakers)
- 120, 240, and 277 Vac
- Global Programming
- Auto-Cycle Feature
- Current Display
- Failed Sensor Output Setting
- Loop Enable/Disable
- Hand/Off/Auto Selection
- Network Communications

Applications:

- Process Temperature Maintenance
- Freeze Protection
- Roof/Gutter De-Icing
- Tank and Vessel Heat Tracing
- Snow Melting
- Floor Heating
- Steam Condensate Return Systems
- Fire Protection Systems



Chromalox[®]
PRECISION HEAT AND CONTROL



intelliTRACE[™]

Description

The IntelliTRACE HTLS Series is a microprocessor based control/monitoring and power management/distribution system for heat trace applications.

The IntelliTRACE 8, 12, 24 loop heat trace system provides alarms for high / low temperature, continuity, ground fault leakage, and sensor faults. The advanced features include a color touchscreen operator interface panel that provides simple programming with no keyboards or cryptic labels. The panel displays loop status, alarm conditions and graphics on process temperatures, setpoints, and currents. Through

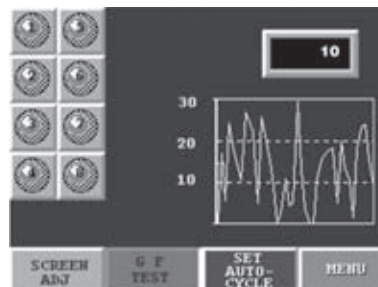
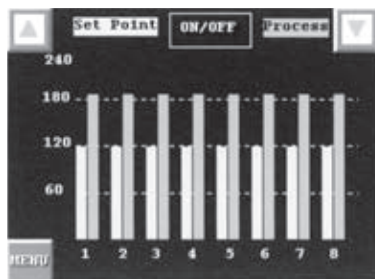
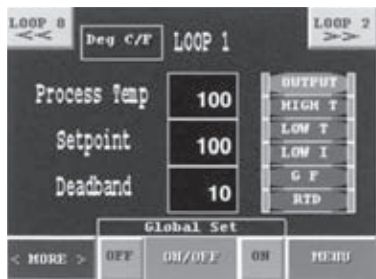
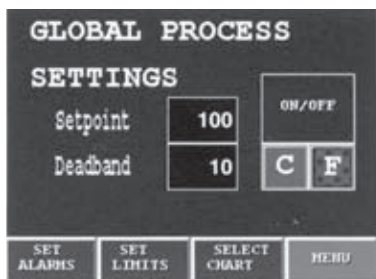
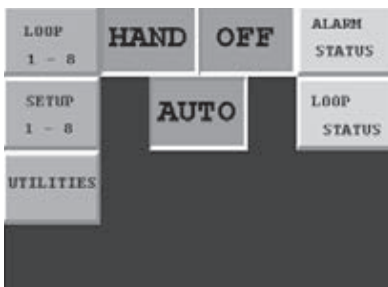
the Global Programming feature, operator setup time is greatly reduced.

With the built-in power distribution, the IntelliTRACE multi-loop provides reduced material, installation, and maintenance costs. The load management feature eliminates the need for expensive ground fault breakers, limits inrush current and systematically interrogates all circuits for continuity, and ground fault leakage, sensor faults, and temperature alarms.

Technical Specifications

Supply Voltage:	120, 240, and 277Vac, Three-Phase
Operating Environment:	32–120°F (0–40°C)
Communications:	RS-485 MODBUS [®]
Input:	RTD 100 Platinum Three-Wire.
Output:	Two-Pole Contactors
Maximum Current:	24 Amps/Ckt
Temperature Alarms:	High/Low 2°F Deadband Non-Latching
Ground Fault Alarm:	Adjustable 25–500 ma Factory Set @ 30 mA
Continuity Alarm:	< 2 amps Non-Latching.
Load Management:	15 sec. Non-Overlap to Reduce Inrush.
Auto-Cycle:	Programmable to 720 Hrs (30 days)
Failed Sensor Output Setting:	0–100%
Control Mode:	On/Off with adjustable Deadband

HTLS Series Line Sensing Heat Trace Panel



Advantages

Highest Value/ Lowest Installed Cost

- Easy Retrofit into Existing Systems.
- Eliminates Ammeter Panels.
- Eliminates Signal Light Kits.
- Eliminates Monitor Wire Alarm Panels.
- Monitors Continuity without the use of Monitor Wire.
- Reduced Material and Installation Costs.
- Temperature/Monitor and Power Management / Distribution In One Package.
- Built-in GFI eliminates the need for separate Ground Fault Breakers.

Lowest Learning Curve

- Simple Color Touchscreen.
- Operator Panel (no Keyboards/no cryptic labels).

Reduced Maintenance/Troubleshooting Time/Cost

- Temperature/Monitor and Power Management in one Package.
- Periodic Auto-Test Function Checks Continuity, Alarms & GFI Status on each loop.
- Continuous Monitoring of Heat Trace Circuits.

HTLS Series Line Sensing Heat Trace Panel

Ordering Information

MODEL

HTLS IntelliTRACE 8000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Eight Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Two-Pole Contactors, Current Transmitters, High/Low Temperature Alarms, On/Off Control, RTD Sensor Inputs, Ground Fault Indication or Shutdown, Common Alarm Output, Hand/Off/Auto, Loop Enable/Disable, Auto Cycle Feature, Color Touch Screen Programming, NEMA 4 rated Enclosure (36"H x 30"W x 8"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z Purge System.

CODE Eight Independent Loops of Heat Trace Control

8

CODE Voltage

- 0** 120 Vac (Includes Single Pole Circuit Breakers) 208Y/120 Vac Three Phase Four-Wire
- 1** 240 Vac (Includes Double Pole Circuit Breakers) 240 Vac Three Phase
- 2** 277 Vac (Includes Single Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire
- 3** 480 Vac (Includes Double Pole Circuit Breakers) 480Y/277 Vac Three-Phase

CODE Circuit Breaker Rating

- 1** 15 Amp Thermal Magnetic
- 2** 20 Amp Thermal Magnetic
- 3** 30 Amp Thermal Magnetic

CODE Cabinet Heater

- 0** None
- 1** Thermostat Controlled Enclosure Heater

CODE Pressurization Control System

- 0** None
- 1** Type Z for Class I Division II Hazardous Location

HTLS 8 0 1 0 0 Typical Model Number

HTLS Series Line Sensing Heat Trace Panel

Ordering Information

MODEL

HTLS IntelliTRACE 12000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Twelve Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Two-Pole Contactors, Current Transmitters, High/Low Temperature Alarms, On/Off Control, RTD Sensor Inputs, Ground Fault Indication or Shutdown, Common Alarm Output, Hand/Off/Auto, Loop Enable/Disable, Auto Cycle Feature, Color Touch Screen Programming, NEMA 4 rated Enclosure (48"H x 36"W x 10"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z Purge System.

CODE Twelve Independent Loops of Heat Trace Control

12

CODE Voltage

- 0** 120 Vac (Includes Single Pole Circuit Breakers) 208Y/120 Vac Three Phase Four-Wire
- 1** 240 Vac (Includes Double Pole Circuit Breakers) 240 Vac Three Phase
- 2** 277 Vac (Includes Single Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire
- 3** 480 Vac (Includes Double Pole Circuit Breakers) 480Y/277 Vac Three-Phase

CODE Circuit Breaker Rating

- 1** 15 Amp Thermal Magnetic
- 2** 20 Amp Thermal Magnetic
- 3** 30 Amp Thermal Magnetic

CODE Cabinet Heater

- 0** None
- 1** Thermostat Controlled Enclosure Heater

CODE Pressurization Control System

- 0** None
- 1** Type Z for Class I Division II Hazardous Location

HTLS 12 0 1 0 0 Typical Model Number

HTLS Series Line Sensing Heat Trace Panel

Ordering Information

MODEL

HTLS IntelliTRACE 24000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Twenty-Four Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Two-Pole Contactors, Current Transmitters, Ground Fault Indication or Shutdown, Continuity Alarms, Common Alarm Output, Loop Enable/Disable, Hand/Off/Auto, Auto Cycle Feature, Thermal Magnetic Circuit Breakers, Color Touch Screen Programming, NEMA 4 rated Enclosure (62"H x 30"W x 8"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z Purge System.

CODE Twenty-Four Independent Loops of Heat Trace Control

24

CODE Voltage

- 0** 120 Vac (Includes Single Pole Circuit Breakers) 208Y/120 Vac Three Phase Four-Wire
- 1** 240 Vac (Includes Double Pole Circuit Breakers) 240 Vac Three Phase
- 2** 277 Vac (Includes Single Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire
- 3** 480 Vac (Includes Double Pole Circuit Breakers) 480Y/277 Vac Three-Phase

CODE Circuit Breaker Rating

- 1** 15 Amp Thermal Magnetic
- 2** 20 Amp Thermal Magnetic
- 3** 30 Amp Thermal Magnetic

CODE Cabinet Heater

- 0** None
- 1** Thermostat Controlled Enclosure Heater

CODE Pressurization Control System

- 0** None
- 1** Type Z for Class I Division II Hazardous Location
- 2** 1603-11030

HTLS 24 0 1 0 0 Typical Model Number

HTLS Series Line Sensing Heat Trace Panel

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