

# HTAS

## Heat Tracing Ambient Sensing Control Panel

Series 8000/12000/24000

### Features:

- Color Touchscreen Operator Panel
- Eight/Twelve/Twenty-Four points of Power Control
- Optional Ambient Sensing Controller
- NEMA 4 Enclosure
- Continuity Alarming
- Ground Fault Alarming/Trip
- Common Alarm Output
- Load Management
- Internal Power Distribution (Includes Circuit Breakers)
- 120, 240, and 277 Vac
- Auto-Cycle Feature
- Current Display
- 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

PDS HTAS



**IntelliTRACE™**

### Description

The IntelliTRACE HTAS Series is a microprocessor based Monitoring and Power Management/Distribution system for Heat Trace Applications.

The IntelliTRACE Multi-Channel Heat Trace System provides Alarms for Continuity, and Ground Fault Leakage. The Advanced Features include a Color Touchscreen Operator Interface Panel that provides simple programming with

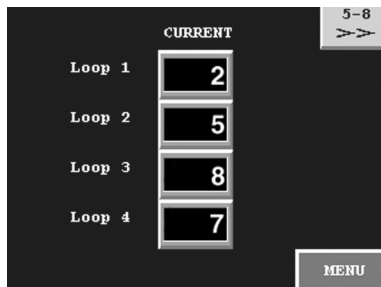
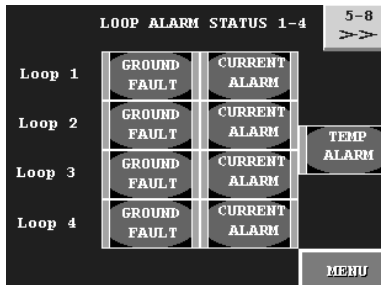
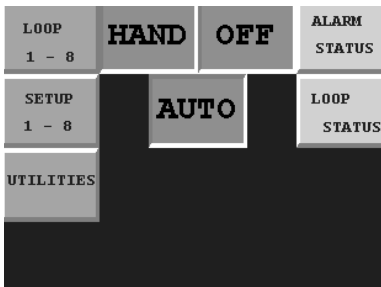
no keyboards or cryptic labels. The panel displays loop status, alarm conditions and graphics on currents.

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

### Technical Specifications

Supply Voltage:	120, 240, and 277Vac, Three-Phase
Operating Environment:	32-120°F (0-40°C)
Communications:	RS-485 MODBUS®
Output:	Two-Pole Contactors
Maximum Current:	24 Amps/circuit
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)
Control Mode:	Optional Ambient Sensing Controller.

# HTAS Series Ambient Sensing Heat Trace Panel



## Advantages

### Highest Value/ Lowest Installed Cost

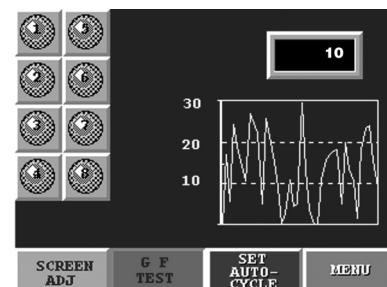
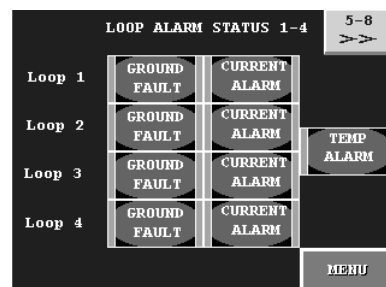
- Easy Retrofit into Existing Systems.
- Eliminates Ammeter Panels.
- Eliminates Signal Light Kits.
- Eliminates Monitor Wire Alarm Panels.
- Monitors Continuity without the use of Monitor Wire.
- Reduced Material and Installation Costs.
- Monitor and Power Management / Distribution in One Package.
- Provides (Optional On/Off Temperature Control) for all types of Heat Trace.
- 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.



# HTAS Series Ambient Sensing Heat Trace Panel

## Ordering Information

### MODEL

**HTAS** IntelliTRACE 8000 Series Ambient Sensing Heat Trace Panel.

#### Panel Configuration

cUL and UL Listed Eight Loop Ambient 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 (36" x 30"W x 8"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z Purge System and Optional Ambient Temperature Sensing Controllers.

#### CODE Eight Zones of Monitored Power 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) 240Vac 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 Selection

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 Ambient Sensing Controller

0	None (Remote Mounted).
1	1601-11030
2	1603-11030

#### CODE Pressurization Control System

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

HTAS 8 0 1 0 0 0 Typical Model Number

# HTAS Series Ambient Sensing Heat Trace Panel

## Ordering Information

### MODEL

#### HTAS IntelliTRACE 12000 Ambient Sensing Heat Trace Panel

##### Panel Configuration

cUL and UL Listed Twelve Loop Ambient 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 (48" x 36"W x 10"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z PURge System and Optional Ambient Temperature Sensing Controllers.

##### CODE Twelve Zones of Monitored Power 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 Ambient Sensing Controller

0	None (Remote Mounted)
1	1601-11030
2	1603-11030

##### CODE Pressurization Control System

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

HTAS 12 0 1 0 0 0 Typical Model Number

# HTAS Series Ambient Sensing Heat Trace Panel

## Ordering Information

### MODEL

#### HTAS IntelliTRACE 24000 Series Ambient Sensing Heat Trace Panel

##### Panel Configuration

cUL and UL Listed Twenty-Four Loop Ambient 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 (60"x 60"W x 12"D) for Indoor/Outdoor Applications. Options Include: Cabinet Heater, Type Z Purge System and Optional Ambient Temperature Sensing Controllers.

##### CODE Twenty-Four Zones of Monitored Power 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 Ambient Sensing Controller

0	None (Remote Mounted)
1	1601-11030
2	1603-11030

##### CODE Pressurization Control System

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

HTAS 24 2 3 1 2 1 Typical Model Number

# HTAS Series Ambient Sensing Heat Trace Panel

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