

## intelliTRACE™

### HTLS

## Heat Tracing Line Sensing Control Panel Series 8000/12000/24000



- Color Touchscreen Operator Panel
- Eight/Twelve/Twenty-Four Points of Independent On/Off Control
- NEMA 4 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, 480, and 277 Vac
- Global Programming
- Auto-Cycle Feature
- Current Display
- Failed Sensor Output Setting
- Loop Enable/Disable
- Network Communications
- Hand/Off/Auto Selection



### Description

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

The IntelliTRACE Multi-Channel 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 temperature, setpoints, and currents.

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, ground fault leakage, sensor faults, and temperature alarms.

### Technical Specifications

**Supply Voltage:** 120, 240, 480, and 277Vac, Three-Phase

**Operating Environment:** 32 – 120°F (0 – 40°C) -30 - 104°F (-34 - 40°C) with enclosure heater option

**Communications:** RS-485 MODBUS®

**Input:** RTD 100 Ω 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 – 500mA Factory Set @ 30mA

**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

### Heat Tracing Line Sensing Control Panel Series 8000/12000/24000

(cont'd.)



#### Ordering Information

**To Order —**  
Complete the Model Number using the Matrix provided.

**Note —** Due to the nature of Division 1 hazardous location applications consultation with a factory representative is required.

Model						
HTLS	<b>IntelliTRACE 8000 Series Line Sensing Heat Trace Panel</b>					
	<b>Panel Configuration</b>					
	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: Enclosure Heater, Type Z Purge System.					
	<b>CODE</b>	<b>Eight Independent Loops of Heat Trace Control</b>				
	8					
	<b>CODE</b>	<b>Voltage</b>				
	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				
	<b>CODE</b>	<b>Circuit Breaker Rating</b>				
	1	15 Amp Thermal Magnetic				
	2	20 Amp Thermal Magnetic				
	3	30 Amp Thermal Magnetic				
	<b>CODE</b>	<b>Enclosure Heater</b>				
	0	None				
	1	Thermostat Controlled Enclosure Heater				
	<b>CODE</b>	<b>Pressurization Control System</b>				
	0	None				
	1	Type Z for Class I Division II Hazardous Location				
HTLS	8	0	1	0	0	<b>Typical Model Number</b>

MULTI-LOOP CONTROLLERS

## HTLS



### Heat Tracing Line Sensing Control Panel Series 8000/12000/24000 (cont'd.)

#### Ordering Information

**To Order —**  
Complete the Model Number using the Matrix provided.

**Note —** Due to the nature of Division 1 hazardous location applications consultation with a factory representative is required.

Model						
HTLS	<b>IntelliTRACE 12000 Series Line Sensing Heat Trace Panel</b>					
	<b>Panel Configuration</b>					
	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: Enclosure Heater, Type Z Purge System.					
	<b>CODE Twelve Independent Loops of Heat Trace Control</b>					
	12					
		<b>CODE Voltage</b>				
		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			
			<b>CODE Circuit Breaker Rating</b>			
			1	15 Amp Thermal Magnetic		
			2	20 Amp Thermal Magnetic		
			3	30 Amp Thermal Magnetic		
				<b>CODE Enclosure Heater</b>		
				0	None	
				1	Thermostat Controlled Enclosure Heater	
					<b>CODE Pressurization Control System</b>	
					0	None
					1	Type Z for Class I Division II Hazardous Location
HTLS	12	0	1	0	0	<b>Typical Model Number</b>



## HTLS

### Heat Tracing Line Sensing Control Panel Series 8000/12000/24000 (cont'd.)

#### Ordering Information

**To Order —**  
Complete the  
Model Number  
using the Matrix  
provided.

**Note —** Due to the  
nature of Division 1  
hazardous location  
applications  
consultation with a  
factory representative  
is required.

Model						
HTLS	<b>IntelliTRACE 24000 Series Line Sensing Heat Trace Panel</b>					
	<b>Panel Configuration</b>					
	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, 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 (62"H x 60"W x 12"D) for Indoor/Outdoor Applications. Options Include: Enclosure Heater, Type Z Purge System.					
	<b>CODE</b>	<b>Twenty-Four Independent Loops of Heat Trace Control</b>				
	24					
	<b>CODE</b>	<b>Voltage</b>				
	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				
	<b>CODE</b>	<b>Circuit Breaker Selection</b>				
	1	15 Amp Thermal Magnetic				
	2	20 Amp Thermal Magnetic				
	3	30 Amp Thermal Magnetic				
	<b>CODE</b>	<b>Enclosure Heater</b>				
	0	None				
	1	Thermostat Controlled Enclosure Heater				
	<b>CODE</b>	<b>Pressurization Control System</b>				
	0	None				
	1	Type Z for Class I Division II Hazardous Location				
HTLS	24	0	1	0	0	<b>Typical Model Number</b>