## 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
- Low Current Alarm with Adjustable Setpoint
- Ground Fault Alarming/Trip
- · Open Sensor Alarm
- Common Alarm Output (Re-Ring Feature)
- Load Management
- Internal Power Distribution (Includes Circuit Breakers)
- 120, 240, 480, and 277 Vac
- Process Loop Identification
- Global Programming
- Auto-Cycle Feature
- Current Display
- Failed Sensor Output Setting
- · Loop Enable/Disable
- Network Communications
- Hand/Off/Auto Selection
- Enclosure Heater Option for **Sub-Zero Ambients**
- Z-Purge Option for Operation in Class 1, Div. 2 Areas



### 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 to 120°F (0 to 40°C) -30 to 104°F (-34 to 40°C) with enclosure heater option

Communications: RS-485 MODBUS® **Input:** RTD 100  $\Omega$  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

Low Current Alarm: .2 to 24.0 Adjustable

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 Dead-

band

## **Controls**

# HTLS



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

HTLS

8

0

(cont'd.)

### Ordering Information

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

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, Low Current Alarm, Loo Tagging and 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 Ind	Eight Independent Loops of Heat Trace Control								
	8										
		CODE	Line Voltage	(Three Phase)	Line Voltage	Circuit Breakers (1/Loop)					
		0	208/120 Vac, 3 Phase, 4 Wir		e 120 Vac	1-Pole					
		1	240 Vac, 3 Phase, 4 Wire		240 Vac	2-Pole					
		2	480/277 Vac	, 3 Phase, 4 Wire	e 277 Vac (240 Vac Cable)	1-Pole					
		3	480 Vac, 3 Phase		480 Vac	2-Pole					
		4	208/120 Vac	, 3 Phase, 4 Wire	e 208 Vac (240 Vac Cable)	2-Pole					
			CODE	Circuit Break	ker Rating						
			1 2 3	20 Amp Ther	rmal Magnetic rmal Magnetic rmal Magnetic						
				CODE	Cabinet Heater						
				0	None						

CODE

0

0

**Pressurization Control System** 

Typical Model Number

Type Z for Class I Division II Hazardous Location

### **Controls**

Twelve Independent Loops of Heat Trace Control

## **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.

## Model

### IntelliTRACE 12000 Series Line Sensing Heat Trace Panel

**Panel Configuration** 

CODE

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, Low Current Alarm, Loop
Tagging and 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	Line Voltage	(Three Phas	e)	Line Voltage	Circuit Breakers (1/Loop)
		0		, 3 Phase, 4 V	•	120 Vac	1-Pole
		1			VII E	240 Vac	2-Pole
		2	240 Vac, 3 Phase, 4 Wire 480/277 Vac, 3 Phase, 4 W			1-Pole	
		3 4	480 Vac, 3 P		480 Vac	2-Pole 2-Pole	
			208/120 Vac, 3 Phase,		/ire		
			CODE	Circuit Breaker Rati 15 Amp Thermal Ma 20 Amp Thermal Ma 30 Amp Thermal Ma		Magnetic Magnetic	
			1 2 3				
				CODE 0 1	Cabinet Heater  None Thermostat Controlled Enclosure Heater		
					CODE	Pressurization Control System	
					0	None Type Z for Class I Division II Haz	ardous Location
						,	
HTLS	12	0	1	0	0	Typical Model Number	

MULTI-LOOP

## **Controls**

# HTLS



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

HTLS

24

1

0

Typical Model Number

(cont'd.)

# Ordering Information

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

Model										
HTLS	IntelliTRACE 24000 Series Line Sensing Heat Trace Panel									
	Panel Configuration									
	Contactors, Current Alarm Output, Hand	Transmitters, /Off/Auto, Loc	High-Low Temp op Enable/Disabl	perature Alarms le, Auto Cycle Fe	, On/Off Cor eature, Colo					
	CODE Twenty-Four Independent Loops of Heat Trace Control									
	24		<u> </u>	<u> </u>						
		CODE	Line Voltage	oltage (Three Phase)		Line Voltage	Circuit Breakers (1/Loop)			
		0	208/120 Vac, 3 Phase, 4 Wire 240 Vac, 3 Phase, 4 Wire		re	120 Vac 240 Vac	1-Pole 2-Pole			
		2 3	480/277 Vac, 3 Phase, 4 Wire 480 Vac. 3 Phase		re	277 Vac (240 Vac Cable) 480 Vac	1-Pole 2-Pole			
			208/120 Vac, 3 Phase, 4 Wire		re	208 Vac (240 Vac Cable)	2-Pole			
			CODE	Circuit Brea	aker Rating					
			1 2 3	15 Amp Thermal Magnetic 20 Amp Thermal Magnetic 30 Amp Thermal Magnetic						
				CODE	Cabinet	Cabinet Heater				
				0	None Thermostat Controlled Enclosure Heater					
					CODE	Pressurization Control System				
					0	None Type Z for Class I Division II Haz	ardous Location			