

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, 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, and 277Vac, Three-Phase

Operating Environment: 32 – 120°F (0 – 40°C)

Communications: RS-485 MODBUS®

Input: RTD 100 Ω Platinum Three-Wire.

Output: Two-Pole Contactors

Maximum Current: 24 Amps/circuit

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.

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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 8000 Series Line Sensing Heat Trace Panel Order Table					
HTLS	cUL Listed Eight Loop Line Sensing Temperature/Monitor Heat Trace Panel. Nema 4 Steel Enclosure 36"H x 30"W x 8"D. Includes: Complete Prewired Controller, Two-Pole Contactors, Current Transformer to Measure Operating Currents, High/Low Temperature Alarms, On/Off Control, RTD Sensor Input, Color Touchscreen Programming, GFI Indication or Shutdown, Common Alarm Output, Hand/Off/Auto Selection, Loop Enable/Disable and Auto-Cycle Feature.					
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) 240Vac Three Phase Three-Wire Delta				
	2	277 Vac (Includes Single-Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire				
		Code	Circuit Breaker Rating Selection			
		1	15 amp Thermal Magnetic circuit Breaker			
		2	20 amp Thermal Magnetic Circuit breaker			
		3	30 amp Thermal Magnetic Circuit Breaker			
			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	2	3	1	1	Typical Model Number

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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 12000 Series Line Sensing Heat Trace Panel Order Table					
HTLS	cUL Listed Twelve Loop Line Sensing Temperature/Monitor Heat Trace Panel. Nema 4 Steel Enclosure 48"H x 36"W x 10"D. Includes: Complete Prewired Controller, Two-Pole Contactors, Current Transformer to Measure Operating Currents, High/Low Temperature Alarms, On/Off Control, RTD Sensor Input, Color Touchscreen Programming, GFI Indication or Shutdown, Common Alarm Output, Hand/Off/Auto Selection, Loop Enable/Disable and Auto-Cycle Feature.					
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) 240Vac Three Phase Three-Wire Delta				
	2	277 Vac (Includes Single-Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire				
		Code	Circuit Breaker Rating Selection			
		1	15 amp Thermal Magnetic circuit Breaker			
		2	20 amp Thermal Magnetic Circuit breaker			
		3	30 amp Thermal Magnetic Circuit Breaker			
			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	2	3	1	1	Typical Model Number

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Heat Tracing Line Sensing Control Panel

Series 8000/12000/24000

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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 24000 Series Line Sensing Heat Trace Panel Order Table					
HTLS	cUL Listed Twenty-Four Loop Ambient Sensing Temperature/Monitor Heat Trace Panel. Floor-Mount Nema 4 Steel Enclosure 60"H x 60"W x 12"D. Includes: Complete Prewired Controller, Two-Pole Contactors, Current Transformer to Measure Operating Currents, High/Low Temperature Alarms, On/Off Control, RTD Sensor Input, Color Touchscreen Programming, GFI Indication or Shutdown, Common Alarm Output, Hand/Off/ Auto Selection, Loop Enable/Disable and Auto-Cycle Feature.					
	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) 240Vac Three Phase Three-Wire Delta			
		2	277 Vac (Includes Single-Pole Circuit Breakers) 480Y/277 Vac Three-Phase Four-Wire			
			Code	Circuit Breaker Rating Selection		
			1	15 amp Thermal Magnetic Circuit Breaker		
			2	20 amp Thermal Magnetic Circuit breaker		
			3	30 amp Thermal Magnetic Circuit Breaker		
				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	24	2	3	1	1	Typical Model Number