

intelliTRACE™

HTLS

Single-Loop Heat Tracing Line Sensing Control Panel



- **Solid State Relay Output Rated 30 Amps**
- **Universal Inputs**
- **NEMA 4X Panel**
- **Ground Fault Alarm/Trip**
- **Programmable High/Low Temperature Alarms**
- **Programmable Current Alarm**
- **Optional RS-485 MODBUS® Communications**
- **120, 208, 240, and 277 VAC**

Description

HTLS is a microprocessor based Temperature Control and Monitoring System for Heat Trace Control.

The HTLS provides On/Off or PID Control, Alarms for High/Low Temperature, Ground Fault Leakage, and Low Current Alarm.

The HTLS Single Loop Panel includes the complete pre-wired Solid State relay mounted on a External Heat Sink, Current Transformers to measure current and monitor ground leakage, terminal blocks for field connections, and a NEMA 4X Fibreglas® Enclosure.

Technical Specifications

Supply Voltage:	120, 208, 240, and 277 Vac
Operating Environment:	30 - 104°F (-1 - 40°C) -30 - 104°F (-34 - 40°C) with enclosure heater option
Communications:	RS-485 MODBUS®
Input:	Thermocouple J, K, L, N, R, S, RTD, Current, Voltage Field Programmable for C or F
Output:	Solid State Relay rated @ 30 amps @ 40°C
Current Alarm (Low):	0 - 30 amps in 1 amp increments
Ground Fault Alarm Trip:	5 - 100mA
Temperature Alarms:	Process, Deviation, Band, High/Low, Latching/ Non-Latching (Manual/Automatic Reset) Programmable.
Control Modes:	Field Selectable On/Off, PID, SMART

Model

HTLS IntelliTRACE 1000 Series Line Sensing Heat Trace Panel

Panel Configuration

cUL and UL Listed Single Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Solid State Relay, Current Transformer, High-Low Temperature Alarms, Low Current Alarm, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Displays, Terminal Blocks for Field Connections, Loop Enable/Disable, NEMA 4X rated Enclosure (12.5"H x 10.5"W x 6"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring or Shutdown and RS-485 Communications.

Code Single Loop of Heat Trace Control

1 30 Amp Rating

Code Voltage

0 120 Vac
1 240 Vac
2 277 Vac
3 208 Vac

Code Controller

0 1604-61230 Controller
1 1604-61430 Controller with Communications

Code Ground Fault Monitoring

0 None
1 GFI 120Vac (Includes Shutdown Contactor and Illuminated Reset switch)
2 GFI 240Vac (Includes Shutdown Contactor and Illuminated Reset switch)
3 GFI 277Vac (Includes Shutdown Contactor and Illuminated Reset switch)
4 GFI 208Vac (Includes Shutdown Contactor and Illuminated Reset switch)

Code Enclosure Heater

0 None
1 Thermostat Controlled Enclosure Heater

HTLS - 1 0 0 0 0 0 Typical Model Number