Heating Cable

intelliTRACE

ITLS

Heat Tracing Control Panel 6 to 36 Loops - Line Sensing

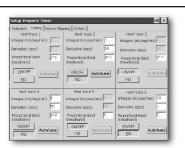
- 10" VGA Touch Screen HMI
- NEMA 4 Enclosure
- SCR Control
- Integral Circuit Panel with Circuit Breakers
- 40 Amps/Loop @ 100 480 VAC
- Expandable to 72 Loops (with ITLS-EXT Extension Panels)
- Optional Main Disconnect
- · Soft Start Feature
- Full Communications
- Enhanced Data Logging
- Complete GFI Monitoring & Alarms
- Load Monitoring & Alarms
- Full Alarm Capabilities
- Optional NEMA 4X
- Optional Customizable I/O Mapping
- Optional Enclosure Heater
- UL, cUL, CE, FM
- Touch Screen Computer:
 - · 6 Loops displayed / screen
 - Quick launch to any 6 loop group, Setup Menu or System Screen
 - Remote Desktop Monitoring
 - Full User Setting Capabilities











The 10" Touch Screen Computer provides real time display of process variable, set point, load current, load demand (%), operation mode type, alarm status and alarm type for any 6 loops at time as well as alarm status for all other loops.

The Quick Launch buttons take you to any other 6-loop real time display screen as well as the Setup, Fault, Log or Communication Screen. All set point, alarm, security, time, loop identification, I/O mapping, tuning, communications and control type mode settings are easily accomplished through the intuitive & familiar Windows based menu screens. All of these functions are achievable locally or remotely via wired or wireless communications.

Description

The IntelliTRACE ITLS Series is a micro-processor based Control/Monitoring and Power Management & Distribution system for Heat Trace Applications.

The ITLS Control Panel Series provides alarms for high / low temperatures, high/low current, ground fault leakage and sensor faults.

The 40 Amps per circuit capacity, the Integral Circuit Panel and the Soft Start feature save significant time, installation and maintenance costs.

The customizable I/O (Sensor) Mapping, the remote monitoring capability and the wireless communication option provide desirable process management flexibility options.

Technical Specifications

Supply Voltage: 100 - 480 VAC, 3 phase

Operating Environment: -40 to +104°F

 $(-40 \text{ to } +40^{\circ}\text{C})$

Communications: RS-485 MODBUS®, Ethernet & Optional Wireless

Alarms: Hi/Lo Temp,

GFI – 6mA – 150 mA, adjustable

Current – 0.1 to 100A or off, indication &

annunciation

Input: 100Ω Platinum 3-wire RTD

Output: SCR, Zero cross fired

Current Maximum: 40 Amps/Circuit

Auto-Cycle: 1 – 999 hours/off

Failed Sensor Output Setting: 0 - 100%

Control Mode: On/Off with adjustable dead-

banı

Load Management: DOT (Demand On Trans-

fer) timing, with Soft Start



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Heat Tracing Control Panel 6 to 36 Loops - Line Sensing

(cont'd.)

Model Product Description

Ordering Information

To Order — Complete the Model Number using the Matrix provided. ITLS series Intelligent Line Sensing Heat Trace Panel. Designed for Industrial applications in Non-Hazardous Areas. ITLS series offers the following standard features: NEMA 4 enclosure, Industrial 10" Digital CE Computer Touchscreen Operator Interface, PID SCR Power Controller Rated at 40A Per Circuit at 104°F Ambient, Six to Thirty-Six Circuits (Expandable to Seventy-Two Circuits*), Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment Protection, RS485 ModBus / Ethernet Communications, Remote Code Circuits & Enclosure Monitoring Capability, Modular SSR/GFI assembly, Modular RTD Sensor assembly, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater, Customized Sensor Mapping, 15" Touchscreen Operator Interface, Wireless Ethernet Communications, CE Third Party Compliance.

1	Code	Circuits	&	Enclosure	Size	Panelboa	rd Size	Panelboard Rating
18 Circuits 60"H x 36"W x 12"D 42 position panel board 225A Main Bus Rating 30 30 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 225A Main Bus Rating 37 Circuits 225A Main Bus Rating 225A Main	06	6 Circuits	3	48"H x 36"	'W x 12"D	18 positio	n panel b	oard 100A Main Bus Rating
24 Circuits	12	12 Circuit	ts	48"H x 36"	'W x 12"D	30 positio	n panel b	oard 225A Main Bus Rating
30 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating 225	18	18 Circuit	ts	60"H x 36"	'W x 12"D	42 positio	n panel b	oard 225A Main Bus Rating
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36 Circuits 62"H x 60"W x 12"D 42 position panel board (X2) 225A Main Bus Rating Code Line Voltage Cable Voltage Circuit Breaker Rating - Type (1/Lot	30	30 Circuit	ts	62"H x 60"	'W x 12"D			
1						42 positio	n panel b	oard (X2) 225A Main Bus Rating
2			Line	Voltage •			Cable Vo	ltage Circuit Breaker Rating - Type (1/Loop)
3	'	1	208/	/120 VAC, 3	3 Phase 4	Wire	120 VAC	120V-1 Pole
A			208/	/120 VAC, 3	3 Phase 4	Wire	208 VAC	208/240V-2 Pole
5 480/277 VAC, 3 Phase 4 Wire 480 VAC 480V-2 Pole Code Cable Load Circuit Breaker Rating Rating 1 15A Thermal Magnetic 2 20A Thermal Magnetic 3 30A Thermal Magnetic 5 50A Thermal Magnetic 5 50A Thermal Magnetic 5 100A Thermal Magnetic 2 150A Thermal Magnetic 2 150A Thermal Magnetic 3 225A Thermal Magnetic 4 250A Thermal Magnetic 5 400A Thermal Magnetic 6 600A Thermal Magnetic 5 400A Thermal Magnetic 6 600A Thermal Magnetic 6 600B Thermal Magnetic 7 NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 48"H x 36"W x 12"D 8 NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60"H x 36"W x 12"D 9 NEMA 4X 304 Stainless Steel Floor Mount Enclosure 62"H x 60"W x 12"D 1 Thermostat Controlled Enclosure Heater (Anti-Condensation Heater 1 Thermostat Controlled Enclosure Heater (Anti-Condensation Heater 2 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 1 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 1 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 1 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 2 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 1 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 2 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 2 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 3 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 2 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 3 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 3 Thermostat Controlled Enclosure Heater (to -40"F Ambient) 4 Thermostat Controlled Enclosure He			240/	/120 VAC, S	Single Pha	ase 3 Wire	240 VAC	208/240V-2 Pole
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