Intelli Trace

Ambient Sensing

ITAS Base Panel ITAS-EXT Extender Panel

Line Sensing

TLS Base Panel _S-EXT Extender Panel

Heat Tracing Control Panel for Ordinary Areas

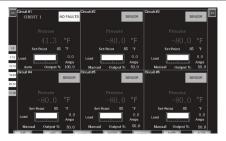
- 10" or 7" Touch Screen HMI
- 40 Amps/Circuit @ 100 600 VAC
- · 2 Circuits to 72 Circuits
- NEMA 4 or NEMA 4X Enclosure
- SCR Control
- Optional Wireless Temperature Sensing
- Integral Circuit Panel with Circuit **Breakers**
- · Optional Main Breaker
- Soft Start Feature
- Full Communications
- Full Alarm and Monitoring Capabilities on GFEP, Temperature, Sensor, Current **Load & Communications**
- **Customizable Sensor Mapping**
- Optional Enclosure Heater
- · UL, cUL
- · Optional CE













The 10" or 7" 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 2 or 6 circuits at a time as well as alarm status for all other circuits.

The Quick Launch buttons take you to any other 2 or 6-circuit real time display screen as well as the Setup, Fault, Log or Communication Screen. All set point, alarm, security, time, circuit identification, sensor 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 ITAS and ITLS Series is a microprocessor based Control/Monitoring and Power Management system for Ambient Sensing, Line Sensing or a combination of Line and Ambient Sensing Heat Trace Applications and is suitable for use in ordinary areas.

The base panels will handle 2 - 48 circuits and may be increased up to 72 circuits with the Extension Panels. A 2 to 4 circuit extension panel may be added to a 6-48 circuit panel but not vice versa. Each circuit has a 40 Amperage capacity and accepts 100 to 600 VAC service. The SCR Control may be set to Automatic, which includes PID or On/Off control or to Manual, which spans a 0% to 100% control output.

The HMI is a 10" (25 cm) or 7" (17cm) user friendly touch screen computer. It displays the process variable, temperature setpoint, alarm status, current load, control mode, sensor failure manual override output for any 2 or 6 circuits at a time as well as the alarm status for all other circuits.

The standard enclosure is rated for NEMA 4 environments and an optional NEMA 4X 304 SS enclosure is available.

The ITAS / ITLS Control Panel Series provide alarms for high and low temperatures, current load, communications, sensor faults and ground fault leakage. There are several output/control behavior scenarios for the ground fault (GFEP) alarm condition. Choices include Trip and/or Latch options in which both, either or none may be enabled. Trip sets the output to zero %, while Latch requires a manual reset. Alarm events are automatically logged and stored for easy access.

Advanced standard features include a proprietary soft start function, off duty Auto Cycle maintenance program and either Modbus RTU/ RS485 or Ethernet communications. Optional features include an industry leading Sensor Mapping** function, remote monitoring and wireless communications.



Intelli Trace Ambient Sensing **ITAS** Base Panel **ITAS-EXT** Extender Panel

Line Sensing ITLS Base Panel ITLS-EXT Extender Panel

Heat Tracing Control Panel for Ordinary Areas

Advanced Features

Soft Start Feature

Certain heating cables exhibit inherent current inrush in colder temperatures. This inrush can cause nuisance breaker tripping. To limit inrush current on the overall system, a proprietary Soft Start algorithm is applied during system start-up. This will ONLY occur while the operation mode is set to AUTO. After the Soft Start program completes its cycle, the Control Mode of the system will either be PID or ON/OFF Control Mode, depending on what was selected by the user. The default setting of the Soft Start Feature for each circuit is "enabled". However. the Soft Start Feature may be disabled if so desired by the owner. The owner has the option to independently manage the Soft Start Feature on each circuit.

Auto Cycle Feature

During prolonged downtime periods, typically during the summer months, it is advisable to intermittently exercise the system circuits. This exercising of the circuits is accomplished via the Autocycle feature. On a sequential circuit basis, the Autocycle feature periodically monitors system performance between 1-999 hours. This provides a certain level of predictive maintenance of the system as Faults (Alarms) will present themselves accordingly. Problem areas may be addressed during non-essential operating periods. The owner has the option to engage or disengage the Autocycle feature at any time.

Sensor Mapping**

When factory enabled, the ITLS & ITLSC1D2 Models provide the owner with customizable Sensor Mapping. This becomes a very powerful and desirable feature when the owner needs added flexibility in controlling the circuit outputs beyond the standard single sensor input.

Sensor Mapping is the assignment of one or more Sensor Inputs to one or more output circuits.

More on Sensor Mapping

Ambient or Line Sensing - Single Sensor:

A single sensor (RTD) may be mapped (or linked) to multiple Output Circuits. This allows several circuits to be controlled by a single sensor.

Minimum, Maximum, Averaging

Several sensors may be mapped to a single output circuit. This allows a single circuit to be controlled by the Minimum or the Maximum or the Average temperature of all of the sensors mapped to that output circuit. This may be desirable on long runs or zones which realize varying temperatures or weather conditions at different times of the day.

Multiple Sensor Mapping

A single sensor may be used independently or combined with other sensors to control more than one circuit.

Combining Sensing Types

The owner may need to have multiple Line and/ or Ambient Sensing control scenarios occurring simultaneously.

** Available only on ITLS & ITLS-EXT

Touch Screen Computer:

- 2 or 6 Circuit displayed/screen
- Quick launch to any 2 or 6 circuit group, Setup Menu or System Screens
- Full User Setting Capabilities Specific Circuit Naming/Identification, Baud rate, set points, units, alarms, etc.
- · Remote Desktop Monitoring

Optional Features:

- NEMA 4X 304 SS Enclosure
- Fully Customizable Sensor Mapping**
- · Enclosure Heater



ITLS Base Panel ITLS-EXT Extender Panel

Heat Tracing Control Panel for Ordinary Areas

Technical Specifications

Panel Specifications

Operating Environment:-40 to +104°F (-40 to +40°C)* Enclosure heater required for Ambient Temperatures below 32°F (0°C)

Enclosure:NEMA 4 or Optional NEMA 4X 304 SS

Enclosure Size:.....See Model Description Tables

Communications: Modbus RTU/RS-485, Ethernet

Alarms:Hi/Lo Temp, GFEP – 20 mA to 150 mA, Hi/Lo Current – 0.1 to 50A or off

Input:100 Ω Platinum 3-wire RTD

Output:SCR, Zero cross fired

Current Maximum:40 Amps/Circuit at 104°F (40°C)

Auto-Cycle:1-999 hours/off

Failed Sensor Output Setting:0 - 100%

Control Mode:Auto, Manual (Hand), Off

Auto: PID or ON/OFF with adjustable dead band Manual: 0% - 100% output, 1% increment

Load Management:DOT (Demand On Transfer) timing, with Soft Start

Approvals:.....UL, cUL Listed. Optional CE Certification

Area Classifications:.....Ordinary Areas

Temperature Rating......T4A (UL) (Derate to T3 & Groups B, C, D when using enclosure heater)



IntelliTrace **Ambient Sensing**

ITAS or ITLS

Technical Notes:

- 1. Refer to PK497 for Installation and Operation details
- 2. Our standard SCCR is 5 kA. Consult sales if a different SCCR is needed.
- 3. For CID2 Panels 120-264V customer supplied instrument power supply
- 4. See ITLS/ITAS-EXT to increase circuits up to 8 circuits for 2-4 Circuit Panels & up to 72 Circuits for 6-48 Circuit Panels. 5. 6-48 Circuit Extension Panels can not be added to 2-4 Circuit Panels but 2-4 circuit extension panels can be added to 6-8 Circuit Panels (up to 72 circuits)

Ordering Information

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

TAS/ITLS Base Panel 5. 6-48 Circuit Extension Panels can n to 6-8 Circuit Panels (up to 72 circu Heat Tracing Control Panel for Ordinary Areas Product Description

IntelliTrace Line/Ambient Sensing Heat Trace Panels are Designed for Industrial applications in Non-Hazardous Areas. ITLS/ITAS series offers the following standard features:

NEMA 4 enclosure, Industrial 10" (7" for 2 and 4 Loop Models) Digital CE Computer Touchscreen Controller Rated at 40A Per Circuit at 104°F (40°C) Ambient, Two to Forty-Eight Circuits (Expandable to Seventy-Two Circuits*), Common Alarm Output, Operator Interface, PID SCR Power, Hand/Off/Auto Operation Breaker for Instrument Power Included, Current Monitoring, 30 mA Ground Fault Equipment Protection, Modbus RTU/RS485 or TCP/Ethernet Communications, Lockout Capable Breakers, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Copper Ground Bar (Standard is Aluminum), Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Heater Power and RTD Terminal Blocks, Wireless Ethernet Communications, CE Third Party Compliance.

Code	Circuits			arty Compliance.	
02	2 Circu	uits	24		
04 06	4 Circı 6 Circı		30 36	30 Circuits 36 Circuits	
12 18	12 Circu	uits		42 Circuits	
18	18 Circu Code	Line Vol		48 Circuits	ble Voltage
	1	208/120	VAC, 3 P	hase 4 Wire 120	0 V- 1 Pole or 208 V - 2 Pole
	2 3	240/120 480/277	VAC, Sing VAC, 3 P		0 V- 1 Pole or 240 V - 2 Pole 7 V- 1 Pole or 480 V - 2 Pole
	ĺ	Code			(Select Breaker Amperage and *1P/2P to Select Breaker Voltage 1(1P)=15A, 120V Breakers)
		0(*)	None	ormal Magnatic	3(*) 30A Thermal Magnetic
		1(*) 2(*)		ermal Magnetic ermal Magnetic	4(*) 40A Thermal Magnetic 5(*) 50A Thermal Magnetic
			Code	Main Disconnect / Circuit	
			0 1	None 30A Thermal Magnetic	None 277/480V 3P
			2	50A Thermal Magnetic	120/208V 3P. 120/240V 1P. 277/480V 3P
			3 4	70A Thermal Magnetic 80A Thermal Magnetic	277/480V 3P 120/240V 1P
			5 6	100A Thermal Magnetic 125A Thermal Magnetic	120/208V 3P, 120/240V 1P 277/480V 3P
			7	150A Thermal Magnetic	120/208V 3P
			8 9	175A Thermal Magnetic 225A Thermal Magnetic	120/240V 1P, 277/480V 3P 120/208V 3P, 120/240V 1P, 277/480V 3P
			X		t is needed Contact Factory for Assistance) er (Anti-Condensation Heater Recommended at a Minimum)
				No Enclosure He	leater
					ntrolled Enclosure Heater (Anti-Condensation Heater) ntrolled Enclosure Heater (Needed for 0°F, -18°C Minimum Ambient Temperature)
				3 Thermostat Cont	ntrolled Enclosure Heater (Needed for -40°F/°C Minimum Ambient Temperature)
				Code Panel Op	·
				1 HMI Sun 2 Panel We	nshield (Req'd. if Panel is to be outdoors) 7 Copper Ground Bar Veathershield Floor Stands for 10" Deep Panel
				3 Heater Po	Power and RTD Terminal Blocks B Floor Stands for 12" Deep Panel
				4 Z-purge s 5 Panel Lig	ight (on separate breaker) X Other (If multiple options needed contact factory)
				6 Powered Code	d Receptacle (on separate breaker) Number of 100 Ohm RTD Sensor Inputs
					(must be multiple of 6, up to 48 inputs, MAXIMUM 3 RTD's per heater circuit)
				1 2	6 (Select if Ambient Sensing ITAS panel) 6 36 7 42
				3	18 8 48
				4 5	24 9 Other (Call Factory for Assitance) 30
					Code Communications
					1 Standard: Modbus RTU/RS485 or Modbus TCP/Ethernet 2 Modbus TCP/Wireless
					3 BACnet
					9 Other Code Temperature Sensing Solutions
					1 Standard Wired Sensing
					2 Wireless Sensing 3 Dry Contact Closure for Ambient Sensing Thermostat
					<u> </u>
					Code Enclosure (Size determined by Table 1)
					1 NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 20 X 10 2 NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10
					NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 16
					5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12
					6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 A NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10
					B NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10
					C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16
			1		E NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 12
					F NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16



IntelliTrace

Ordering Information

Ambient Sensing

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

LS-EXT Extender Panel

Heat Tracing Control Extension Panel for Ordinary Areas

Product Description

ITAS-EXT or ITLS-EXT ITLS/ITAS-EXT series Intelligent Line/Ambient Sensing Heat Trace Extension Panel. Designed for Industrial applications in Non-Hazardous Areas. Intended To Be Used with ITLS/ITAS Heat TraceLine/Ambient Sensing Panel to increase circuit service. ITLS-EXT series offers the following standard features: NEMA 4 enclosure, PID SCR Power Controller Rated at 40A Per Circuit at 104°F (40°C) Ambient, Two to Forty-Eight Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, Modbus RTU/RS485 or TCP/Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Copper Ground Bar (Standard is Aluminum), Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Heater Power and RTD Terminal Blocks, Wireless Ethernet Communications, CE Third Party Compliance.

22 2 Circuits 24 24 Circuits 30 30 Circuits 30 50 Circuits 30	Monito Code	ring Capa Circu		/, Thern	nostat (Controlled E	nclosure	Heater, I	Heater P	ower and F	TD Terminal Blocks, Wireless Ethernet Communications, CE Third Party Compliance.	
12 2 Circuits 42 42 Circuits 4 45 Circuits	04	4 Ci	rcuits	3	30	30 Circui	ts					
Code	12	12 Ci	rcuits	3	42	42 Circuits						
1	18					48 Circui	ts		Cab	Cable Voltage		
Additional Code Cod		1	20	08/120	VAC,			A /:	120	V- 1 Pol	e or 208 V - 2 Pole	
1			48	80/277	VAC,	3 Phase	4 Wire		277	' V- 1 Pol	e or 480 V - 2 Pole	
16 15A Thermal Magnetic						Load Circui	it Breake	r Rating				
None					15A Th	ermal Mag ermal Mag	gnetic gnetic		4(* 5(*) 40A	hermal Magnetic	
1 30A Thermal Magnetic				_			isconne	ct / Circı	ıit Breal	ær		
3					Ĭ	30A Th	ermal M	agnetic			277/480V 3P	
100A Thermal Magnetic					3	70A Th	ermal M	agnetic			277/480V 3P	
150A Thermal Magnetic					5	100A T	hermal N	/lägnetic			120/208V 3P, 120/240V 1P	
175A Thermal Magnetic						125A T 150A T	hermal M hermal M	∕lagnetic ⁄lagnetic				
No Enclosure Heater (Anti-Condensation Heater Recommended at a Minimum)					9	175A T 225A T	hermal N hermal N	l Magnetic l Magnetic	t is neede	ded Conta	120/208V 3P, 120/240V 1P, 277/480V 3P	
Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) Thermostat Controlled Enclosure Heater (Needed for 7-, 18°C Minimum Ambient Temperature) Thermostat Controlled Enclosure Heater (Needed for 7-40°F/C Minimum Ambient Temperature)					Î						,	
Thermostat Controlled Enclosure Heater (Needed for CF, -18°C Minimum Ambient Temperature) Thermostat Controlled Enclosure Heater (Needed for -40°F/°C Minimum Ambient Temperature) Code							No Er Therr	nclosure nostat Co	Heater ontrolled	Enclosur	Heater (Anti-Condensation Heater)	
2 Panel Weathershield Heater Power and RTD Terminal Blocks A Floor Stands for 10" Deep Panel Tourney system B Floor Stands for 12" Deep Panel Floor Stands for 12" Deep Panel Floor Stands for 12" Deep Panel Floor Stands for 16" Deep Panel Floor Stands for							Therr Therr	nostat Co nostat Co	ontrolled ontrolled	Enclosur Enclosur	: Heater (Needed for 0°F, -18°C Minimum Ambient Temperature)	
A											8 Loss of Power Relay	
Faire Light (on separate breaker) C Floor Stands for 16" Deep Panel							3	3 Heater	Power	and RTD T	erminal Blocks A Floor Stands for 10 st Deep Panel	
Copper Ground Bar Code Number of 100 Ohm RTD Sensor Inputs (must be multiple of 6, up to 48 inputs, MAX. 3 RTD's/heater 1								Panel	Light (o	n separate	breaker) C Floor Stands for 16" Deep Panel	
1							ь 7				separate breaker) X Other (If multiple options needed contact factory)	
Standard: Modbus RTU/RS485 or Modbus TCP/Ethernet												
								2	12	Select II P	7 42	
Standard: Modbus RTU/RS485 or Modbus TCP/Ethernet ModBus TCP/Wireless BACnet 9 Other									24			
1 Standard: Modbus RTU/RS485 or Modbus TCP/Ethernet ModBus TCP/Wireless BACnet Other Code Temperature Sensing Solutions								5		Comn	unications	
BACnet Other Code Temperature Sensing Solutions 1 Standard Wired Sensing 2 Wireless Sensing 3 Dry Contact Closure for Ambient Sensing Thermostat 4 Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors) Code Enclosure (size determined by table 1) 1 NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 20 X 10 2 NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10 3 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 4 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 A NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10 B NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 D NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16 E NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16									1	Stand	ard: Modbus RTU/RS485 or Modbus TCP/Ethernet	
1 Standard Wired Sensing 2 Wireless Sensing 3 Dry Contact Closure for Ambient Sensing Thermostat 4 Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors) Code Enclosure (size determined by table 1)									3	BACn	us for/whiteless t	
2 Wireless Sensing Dry Contact Closure for Ambient Sensing Thermostat Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors) Code Enclosure (size determined by table 1)											·	
Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors) Code Enclosure (size determined by table 1) 1 NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 20 X 10 2 NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10 3 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 4 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 16 5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 6 NEMA 4X 304 Stainless Steel Mall-Mount Enclosure 24 X 20 X 10 8 NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10 C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 D NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16 E NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16										2	Wireless Sensing	
1 NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 20 X 10 2 NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10 3 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 4 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 16 5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 A NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10 B NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10 C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 D NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16 E NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16										3 4	Remote Snow Sensor Input (For ITAS ONLY i.e. SIT, GIT & CIT type sensors)	
NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10												
6 MEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 A NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10 B NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10 C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 D NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16 E NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 12											2 NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 10 3 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 4 NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 16 5 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12	
											6 NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 A NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 20 X 10 B NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 10 C NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 D NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 16	
LS-EXT- 06	I S-FYT- NA	3	3/1	P)	5	1	3	1	1	1	F NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16	

^{*}Designed to be paired with an ITAS Panel





Intelli Trace **Ambient Sensing ITAS** Base Panel **ITAS-EXT** Extender Panel

Heat Tracing Control Panel for Ordinary Areas

Model Number Note

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following nonstandard considerations: Special Software or Configuration, Private Branding, Remote Monitoring/Touch-Screen Computer, Sunshield or other Protective Covering, Third Party Approval, Floor Stands, Mounting Options, Special Materials (316 SS) or Coatings, Additional Venting or Cooling, Special Indication or Alarms.

ATEX Certification: Consult Sales on all models.

Technical Notes

- 1. 120-264V customer supplied instrument power supply
- 2. Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- 3. Do Not Exceed 80% of Panelboard Rating
- 4. These Extension Panels are to be paired with an ITAS Panel.

Spare/Replacement Parts for ITAS & ITAS-EXT

Part Number	Description
0135-02261	SSR/GFI Power Control Assy, with Heat Sink
0135-02262	RTD Sensor Input Board Assembly
0135-02263	Digital Distribution Comm Board Assembly
0002-60054	SSR, 40 Amp rated
0029-00640	SSR Thermstrate Material
0025-05227	Common Alarm Relay
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount
0135-30490	ITAS-Digital Control 10" (250mm) Display, programmed
0017-42931	15A 1P Thermal Mag Circuit Breaker (120V)
0017-43355	20A 1P Thermal Mag Circuit Breaker (120V)
0017-43356	30A 1P Thermal Mag Circuit Breaker (120V)
0017-43427	40A 1P Thermal Mag Circuit Breaker (120V)
0017-43428	50A 1P Thermal Mag Circuit Breaker (120V)
0017-43373	15A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43374	20A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43345	30A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43375	40A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43429	50A 2P Thermal Mag Circuit Breaker (208/240V)
0017-43013	15A 1P Thermal Mag Circuit Breaker (277V)
0017-42912	20A 1P Thermal Mag Circuit Breaker (277V)
0017-42913	30A 1P Thermal Mag Circuit Breaker (277V)
0017-43349	40A 1P Thermal Mag Circuit Breaker (277V)
0017-42966	50A 1P Thermal Mag Circuit Breaker (277V)
0017-42970	15A 2P Thermal Mag Circuit Breaker (480V)
0017-43000	20A 2P Thermal Mag Circuit Breaker (480V)
0017-42928	30A 2P Thermal Mag Circuit Breaker (480V)
0017-43430	40A 2P Thermal Mag Circuit Breaker (480V)
0017-43431	50A 2P Thermal Mag Circuit Breaker (480V)
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors

Accessories for ITAS & ITAS-EXT

Part Number	Description
Contact Sales	Power Transformers
317315	RTD Aluminum, NEMA 4
317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4
308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT
317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT
0076-15392	HMI Sunscreen, Painted Steel (ITLS/ITAS-6-72)
0076-12009	Floor Stand Kit, 12" (30 cm) Deep, Steel
0076-12050	Floor Stand Kit, 12" (30 cm) Deep, 304 SS
Contact Sales	Floor Stand Kit, 12" (30 cm) Deep, 316 SS

