

### 4131 Series SCR Panel

**Model**

4131 Single Phase Zero Fired SCR Power Control Panel

**Panel Configuration**

UL and cUL Listed Single Phase SCR Power Control Panel. Rated for up to 650 Amps at 120 – 600 Vac.

Standard Features: Factory pre-wired for quick installation, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Heat-Sink Overtemperature Lamp, Terminal Block for customer supplied 120 Vac Control Power.

Optional Features: Ground Fault Monitor, Shorted SCR Detection, Multi-meter: Combination Ammeter with Current Transformer and Voltmeter with Potential Transformer.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size, H x W x D, In (cm)	Base Price
01	100 Amp	MXPCI-3-02-1-1-L0-F01-0	24 x 24 x 16 (61 x 61 x 41)	2,720.00
03	150 Amp	MXPCI-3-04-1-1-L0-F01-0	24 x 24 x 16 (61 x 61 x 41)	2,980.00
05	200 Amp	MXPCI-3-06-1-1-L0-F02-0	24 x 24 x 16 (61 x 61 x 41)	3,240.00
07	300 Amp	MXPCI-3-08-1-1-L0-F03-0	36 x 30 x 16 (91 x 76 x 41)	3,740.00
09	400 Amp	MXPCI-3-10-1-1-L0-F04-0	36 x 30 x 16 (91 x 76 x 41)	4,000.00
11	550 Amp	MXPCI-3-12-1-1-L0-F05-0	36 x 30 x 16 (91 x 76 x 41)	5,030.00
13	650 Amp	MXPCI-3-14-1-1-L0-F06-0	36 x 30 x 16 (91 x 76 x 41)	5,420.00

Code	Voltage	Adder
1	120 - 480 Vac	nc
2	575/600 Vac	125.00

Code	Ground Fault Sensing Option	Adder
0	None	nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch	1,095.00

Code	Options	Adder
0	None	nc
3	Shorted SCR Detection	315.00
4	Multimeter (Volts & Current)	1,675.00
6	Multimeter (Volts & Current) and Shortened SCR Detection	1,990.00

4131 - 03 1 1 3 Typical Model Number (4131-03113)

**Technical Notes:**

Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.  
Consult Factory for 575 Vac Applications and Pricing

## 4132 Series SCR Panel

**Model**

4132 **Three Phase Two-Leg Zero Fired SCR Power Control Panel**

**Panel Configuration**

UL and cUL Listed Single Phase SCR Power Control Panel. Rated for up to 650 Amps at 120 – 600 Vac.

Standard Features: Factory pre-wired for quick installation, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Heat-Sink Overtemperature Lamp, Terminal Block for customer supplied 120 Vac Control Power.

Optional Features: Ground Fault Monitor, Shorted SCR Detection, Multi-meter: Combination Ammeter with Current Transformer and Voltmeter with Potential Transformer.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size, H x W x D, In (cm)	Base Price
01	100 Amp	MXPCII-3-02-1-1-L0-F01-0	36 x 30 x 16 (91 x 76 x 41)	3,590.00
03	150 Amp	MXPCII-3-04-1-1-L0-F01-0	36 x 30 x 16 (91 x 76 x 41)	3,880.00
05	200 Amp	MXPCII-3-06-1-1-L0-F02-0	36 x 30 x 16 (91 x 76 x 41)	4,350.00
07	300 Amp	MXPCII-3-08-1-1-L0-F03-0	36 x 30 x 16 (91 x 76 x 41)	4,880.00
09	400 Amp	MXPCII-3-10-1-1-L0-F04-0	36 x 30 x 16 (91 x 76 x 41)	5,170.00
11	550 Amp	MXPCII-3-12-1-1-L0-F05-0	36 x 30 x 16 (91 x 76 x 41)	6,810.00
13	650 Amp	MXPCII-3-14-1-1-L0-F06-0	36 x 30 x 16 (91 x 76 x 41)	7,110.00

Code	Voltage	Adder
1	120 - 480 Vac	nc
2	575/600 Vac	195.00

Code	Ground Fault Sensing/Interrupt Option	Adder
0	None	nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch	1,095.00

Code	Options	Adder
0	None	nc
3	Shorted SCR Detection	315.00
4	Multimeter (Volts & Current)	1,675.00
6	Multimeter (Volts & Current) and Shortened SCR Detection	1,990.00

4132 - 03 1 1 0 Typical Model Number (4132-03110)

**Technical Notes:**

Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.  
Consult Factory for 575 Vac Applications and Pricing

## 4133 Series SCR Panel

<b>Model</b>				
4133	<b>Three Phase Three-Leg Zero Fired SCR Power Control Panel</b>			
<b>Panel Configuration</b>				
UL and cUL Listed Single Phase SCR Power Control Panel. Rated for up to 650 Amps at 120 – 600 Vac.				
<u>Standard Features:</u> Factory pre-wired for quick installation, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Heat-Sink Overtemperature Lamp, Terminal Block for customer supplied 120 Vac Control Power.				
<u>Optional Features:</u> Ground Fault Monitor, Shorted SCR Detection, Multi-meter: Combination Ammeter with Current Transformer and Voltmeter with Potential Transformer.				
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Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size, H x W x D, In (cm)	Base Price
01	100 Amp	MXPCIII-3-02-1-1-L0-F01-0	36 x 30 x 16 (91 x 76 x 41)	4,280.00
03	150 Amp	MXPCIII-3-04-1-1-L0-F01-0	36 x 30 x 16 (91 x 76 x 41)	4,930.00
05	200 Amp	MXPCIII-3-06-1-1-L0-F02-0	36 x 30 x 16 (91 x 76 x 41)	5,340.00
07	300 Amp	MXPCIII-3-08-1-1-L0-F03-0	36 x 30 x 16 (91 x 76 x 41)	5,800.00
09	400 Amp	MXPCIII-3-10-1-1-L0-F04-0	36 x 30 x 16 (91 x 76 x 41)	6,340.00
11	550 Amp	MXPCIII-3-12-1-1-L0-F05-0	48 x 36 x 16 (122 x 91 x 41)	9,050.00
13	650 Amp	MXPCIII-3-14-1-1-L0-F06-0	48 x 36 x 16 (122 x 91 x 41)	9,700.00
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Code	Voltage			Adder
1	120 - 480 Vac			nc
2	575/600 Vac			252.00
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Code	Ground Fault Sensing Option			Adder
0	None			nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch			1,095.00
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Code	Options			Adder
0	None			nc
3	Shorted SCR Detection			315.00
4	Multimeter (Volts & Current)			1,675.00
6	Multimeter (Volts & Current) and Shortened SCR Detection			1,990.00
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4133 -	03	1	1	0
Typical Model Number (4133-03110)				

**Technical Notes:**

Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.  
 Consult Factory for 575 Vac Applications and Pricing

## 4214 & 4224 Series SCR Panels

**Product Description**

UL, cUL Listed Single or Three Phase SCR Power Control Panel rated for 30 Amps at 100 - 600 Vac (Single Phase) or 208 - 600 Vac (Three Phase)  
**Standard Features:** Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4/12 rated Enclosure for Indoor/Outdoor Applications, Three-Pole Shutdown Contactor, SSR for Power Switching with I<sup>2</sup>t Fusing.  
**Optional Features:** Process Controller, Hi-limit Controller, Ground Fault Monitor, Disconnect Switch, and Enclosure Heater.

Model	Enclosure Size, H x W x D, In (cm)	Base Price
4214 <b>Single Phase Zero Fired SCR Power Control Panel</b>	16 x 16 x 6 (41 x 41 x 15)	1,690.00
4224 <b>Three Phase Two-Leg Zero Fired SCR Power Control Panel</b>	24 x 24 x 10 (61 x 61 x 25)	2,080.00

Code	Current @ 40°C (104°F) Ambient (with no Solar Load)	Adder
3	30 Amps	nc

  

Code	Voltage	Adder
0	120 Vac (Not available on the 4224)	nc
1	208 Vac	nc
2	240 Vac	nc
3	380 Vac	nc
4	415 Vac	nc
5	480 Vac	nc
6	575/600 Vac	63.00

  

Code	Process Controller Options	Adder
0	Customer Supplied Digital Signal ( 3 - 20 Vdc)	nc
1	6040-SR0000 1/16 DIN SSR, Relay	335.00
6	LM-2 Module (4 - 20 mA Input)	155.00

  

Code	Overtemperature Controller Options	Adder
0	None	nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay	335.00

  

Code	Options	Adder
0	None	nc
1	Main Disconnect with Through Door Operator	205.00
2	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch **	1,095.00
3	Thermostat Controlled Enclosure Heater	565.00
4	Ground Fault Monitor & Main Disconnect Switch **	1,300.00
5	Main Disconnect Switch & Enclosure Heater	1,660.00
6	Ground Fault Monitor, Main Disconnect Switch & Enclosure Heater **	770.00
7	Ground Fault Monitor & Enclosure Heater **	1,865.00

4224 - 3 5 1 1 1 Typical Model Number (4224-35551)

\*\*Ground Fault detection requires grounded supply.

**In Stock**

Model	PCN	List Price	
4224-35111	314771	2,955.00	New

### 4168 Mini SCR Panel

**Model**

4168 Single Phase Zero Fired SCR Mini Power Control Panel

**Panel Configuration**

UL and cUL Listed, Single Phase SCR Power Control Panel. Rated for 30 or 65 Amps at 120 – 600Vac.  
**Standard Features:** Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4/12 rated Enclosure, External Heat Sinks for Indoor/Outdoor Applications, I<sup>2</sup>t Fusing, and Shutdown Contactor.  
**Optional Features:** Process Controller, Hi-Limit Controller, Ground Fault Monitoring, Main Disconnect Switch, Enclosure Heater & Load Fusing.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	Enclosure Size, H x W x D, In (cm)	Base Price
3	30 Amp	24 x 20 x 8 (61 x 51 x 20)	2,340.00
6	65 Amp	24 x 20 x 8 (61 x 51 x 20)	2,900.00

Code	Voltage	Adder
1	120 Vac	nc
2	208 Vac	nc
3	240 Vac	nc
4	480 Vac	nc
6	575/600 Vac	125.00

Code	Process Controller Options	Adder
0	None (6 - 12 Vdc Control Signal Customer Supplied)	nc
1	6040-SR0000 1/16 DIN SSR, Relay	335.00
2	6040-SRA100 1/16 DIN SSR, Relay, Retransmit, RS485	435.00
3	4040-SR0000 1/4 DIN SSR, Relay	490.00
4	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint	680.00
5	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet	825.00
7	Customer Supplied Remote 4 - 20 mAdc signal	315.00

Code	Overtemperature Controller Options	Adder
0	None	nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay	335.00
2	6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485	435.00
3	4050-1R000 1/4 DIN Fixed 5A Relay, Relay	490.00
4	4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	590.00

Code	Options	Adder
0	None	nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch **	1,095.00
2	Main Disconnect with Through Door Operator	205.00
3	Thermostat Controlled Enclosure Heater	565.00
4	Ground Fault Monitor & Main Disconnect Switch**	1,300.00
5	Main Disconnect Switch & Enclosure Heater	770.00
6	Ground Fault Monitor & Enclosure Heater**	1,660.00
7	Ground Fault Monitor, Main Disconnect Switch & Enclosure Heater**	1,865.00

Code	Load Fusing Option*	Adder/Ckt
Blank	None	nc
9010(*)	8 Amps/Circuit (10 Amp fuse)	190.00
9015(*)	12 Amps/Circuit (15 Amp fuse)	190.00
9020(*)	16 Amps/Circuit (20 Amp fuse)	190.00
9025(*)	20 Amps/Circuit (25 Amp fuse)	190.00
9030(*)	24 Amps/Circuit (30 Amp fuse)	190.00
9035(*)	28 Amps/Circuit (35 Amp fuse)	200.00
9040(*)	32 Amps/Circuit (40 Amp fuse)	200.00
9045(*)	36 Amps/Circuit (45 Amp fuse)	200.00
9050(*)	40 Amps/Circuit (50 Amp fuse)	200.00
9060(*)	48 Amps/Circuit (60 Amp fuse)	200.00
9070(*)	56 Amps/Circuit (70 Amp fuse)	250.00
9080(*)	64 Amps/Circuit (80 Amp fuse)	320.00

4168 - 6 4 2 2 0 - 9025(3) Typical Model Number (4168-64220-9025(3))

\*Specify Number of Circuits (Maximum Three Circuits of Load Fusing)  
 \*\*Ground Fault detection requires grounded supply.

## 4268 Mini SCR Panel

**Model**

4268 **Three Phase Two-Leg Zero Fired SCR Mini Power Control Panel**

**Panel Configuration**

UL and cUL Listed, Three Phase SCR Power Control Panel. Rated for 30 or 65 Amps at 120 – 600Vac.  
 Standard Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4/12 rated Enclosure, External Heat Sinks for Indoor/Outdoor Applications, I<sup>2</sup>t Fusing, and Shutdown Contactor.  
 Optional Features: Process Controller, Hi-Limit Controller, Ground Fault Monitoring, Main Disconnect Switch, Enclosure Heater & Load Fusing.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	Enclosure Size, H x W x D, In (cm)	Base Price
3	30 Amp	24 x 20 x 8 (61 x 51 x 20)	2,390.00
6	65 Amp	24 x 20 x 8 (61 x 51 x 20)	2,980.00

Code	Voltage	Adder
2	208 Vac	nc
3	240 Vac	nc
4	480 Vac	nc
6	575/600 Vac	125.00

Code	Process Controller Options	Adder
0	None (6 - 12 Vdc Control Signal Customer Supplied)	nc
1	6040-SR0000 1/16 DIN SSR, Relay	335.00
2	6040-SRA100 1/16 DIN SSR, Relay, Retransmit, RS485	435.00
3	4040-SR0000 1/4 DIN SSR, Relay	490.00
4	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint	680.00
5	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet	825.00
7	Customer Supplied Remote 4 - 20 mAdc, 0-10 Vdc, 0-5 Vdc	315.00

Code	Overtemperature Controller Options	Adder
0	None	nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay	335.00
2	6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485	435.00
3	4050-1R000 1/4 DIN Fixed 5A Relay, Relay	490.00
4	4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	590.00

Code	Options	Adder
0	None	nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch **	1,095.00
2	Main Disconnect with Through Door Operator	205.00
3	Thermostat Controlled Enclosure Heater	565.00
4	Ground Fault Monitor & Main Disconnect Switch **	1,300.00
5	Main Disconnect Switch & Enclosure Heater	770.00
6	Ground Fault Monitor & Enclosure Heater **	1,660.00
7	Ground Fault Monitor, Main Disconnect Switch & Enclosure Heater **	1,865.00

Code	Load Fusing Option*	Adder/Ckt
Blank	None	nc
9010(*)	8 Amps/Circuit (10 Amp fuse)	190.00
9015(*)	12 Amps/Circuit (15 Amp fuse)	190.00
9020(*)	16 Amps/Circuit (20 Amp fuse)	190.00
9025(*)	20 Amps/Circuit (25 Amp fuse)	190.00
9030(*)	24 Amps/Circuit (30 Amp fuse)	190.00
9035(*)	28 Amps/Circuit (35 Amp fuse)	200.00
9040(*)	32 Amps/Circuit (40 Amp fuse)	200.00
9045(*)	36 Amps/Circuit (45 Amp fuse)	200.00
9050(*)	40 Amps/Circuit (50 Amp fuse)	200.00
9060(*)	48 Amps/Circuit (60 Amp fuse)	200.00
9070(*)	56 Amps/Circuit (70 Amp fuse)	250.00
9080(*)	64 Amps/Circuit (80 Amp fuse)	320.00

4268 - 6 4 2 1 0 - 9025(3) Typical Model Number (4268-64210-9025(3))

\*Specify Number of Circuits (Maximum Three Circuits of Load Fusing).  
 \*\*Ground Fault detection requires grounded supply.

**Note:**  
 Stocked Panels may be used at 240 Vac by changing strapping of control power transformer.

**In Stock**

Model	PCN	List Price
4268-34112	314739	3,265.00
4268-64112	314763	3,855.00

New  
 New

### 4532 Series SCR Panel

**Model**

4532 Three Phase Two-Leg Zero Fired SCR Power Control Panel

**Panel Configuration**

UL and cUL Listed Three Phase SCR Power Control Panel, rated up to 90 Amps at 120, 240 or 480 Vac.

Standard Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Main Disconnect Switch, Three-Pole Shutdown Contactor and SCRs for Power Switching.

Optional Features: Process Controller, Hi-Limit Controller, Control via Customer-Supplied Input Signal, Door Mounted Potentiometer and Ground Fault Monitor.

NOTE: A Vari-Watt is supplied when either the Customer Supplied Control Signal or 10K Potentiometer Control Option is selected.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size H x W x D, In (cm)	Base Price
40	90 Amp	SCR Power Controller	24 x 24 x 10 (61 x 61 x 25)	4,850.00
<b>Code Process Controller Options</b>				<b>Adder</b>
1	Terminal Block for Customer Supplied Control Signal (4 - 20 mA, 3 - 20 Vdc, Contact Closure, or 10K Potentiometer)			nc
2	Door Mounted 10K Potentiometer, 0 - 100% Power Output Scale.			130.00
3	6040-SR0000 1/16 DIN SSR, Relay			335.00
4	6040-SRA100 1/16 DIN SSR, Relay, Retransmit, RS485			435.00
5	4040-SR0000 1/4 DIN SSR, Relay			490.00
6	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint			680.00
7	4080-COSRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet			825.00
<b>Code Overtemperature Controller Options</b>				<b>Adder</b>
0	None			nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay			335.00
2	6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485			435.00
3	4050-1R000 1/4 DIN Fixed 5A Relay, Relay			490.00
4	4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485			590.00
<b>Code Ground Fault Sensing/Interrupt Option</b>				<b>Adder</b>
0	None			nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch **			1,095.00

4532 - 40 5 3 0 Typical Model Number (4532-40530)

**Technical Notes:**

Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.

\*\*Ground Fault detection requires grounded supply.

**In Stock**

Model	PCN	List Price
4532-40530	307070	5,830.00

New

## 4534 Series SCR Panel

**Model**

4534 **Three Phase Two-Leg Zero Fired SCR Power Control Panel**

**Panel Configuration**

UL and cUL Listed Three Phase SCR Power Control Panel, rated up to 30 Amps at 120, 240 or 480 Vac.

Standard Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4 rated Enclosure for Indoor/Outdoor Applications, Main Disconnect Switch, Three-Pole Shutdown Contactor and SSRs for Power Switching.

Optional Features: Process Controller, Hi-Limit Controller, Control via Customer-Supplied Input Signal, Door Mounted Potentiometer, Enclosure Heater and Ground Fault Monitor.

NOTE: A Vari-Watt is supplied when either the Customer Supplied Control Signal or 10K Potentiometer Control Option is selected.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size H x W x D, In (cm)	Base Price
40	30 Amp	Solid State Relays	24 x 24 x 10 (61 x 61 x 25)	5,980.00
				<b>Adder</b>
<b>Code</b>	<b>Process Controller Options</b>			
1	Terminal Block for Customer Supplied Control Signal (4 - 20 mA, 3 - 20 Vdc, Contact Closure, or 10K Potentiometer)			nc
2	Door Mounted 10K Potentiometer, 0 - 100% Power Output Scale.			130.00
3	6040-SR0000 1/16 DIN SSR, Relay			335.00
4	6040-SRA100 1/16 DIN SSR, Relay, Retransmit, RS485			435.00
5	4040-SR0000 1/4 DIN SSR, Relay			490.00
6	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint			680.00
7	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet			825.00
				<b>Adder</b>
<b>Code</b>	<b>Overtemperature Controller Options</b>			
0	None			nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay			335.00
2	6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485			435.00
3	4050-1R000 1/4 DIN Fixed 5A Relay, Relay			490.00
4	4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485			590.00
				<b>Adder</b>
<b>Code</b>	<b>Options</b>			
0	None			nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch *			1,095.00
2	Thermostat Controlled Enclosure Heater			565.00
3	Ground Fault Monitor & Enclosure Heater			1,660.00
4534 -	40	5	3	0
Typical Model Number (4534-40530)				

\*Ground Fault detection requires grounded supply.

## 4537 Series SCR Panel

**Model** 4537 Three Phase Two-Leg Zero Fired SCR Power Control Panel - Class I, Div 1 & 2, Group B, C, D, Class 2, Div 1 & 2, Groups E, F, G.

**Panel Configuration**

UL and cUL Listed Three Phase SCR Power Control Panel, rated up to 45 Amps at 120, 240 or 480 Vac.

Standard Features: Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 7 rated Explosion-Proof Enclosure for Hazardous Areas, Main Disconnect Switch, Three-Pole Shutdown Contactor, SSRs for Power Switching and Viewing Window.

Optional Features: Process Controller, Hi-Limit Controller, Control via Customer-Supplied Input Signal, Enclosure Heater, Weather Proof Gasket and Ground Fault Monitor.

NOTE: A Vari-Watt is supplied when either the Customer Supplied Control Signal or 10K Potentiometer Control Option is selected.

Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Enclosure Size H x W x D, In (cm)	Base Price
40	45 Amp	Solid State Relays	28.5 x 21 x 13 (72 x 53 x 33)	14,300.00

Code	Process Controller Options	Adder
0	Terminal Block for Customer Supplied Signal (4-20 mA, 3-20 Vdc, Contact Closure or 10K Potentiometer)	nc
1	6040-SR0000 1/16 DIN SSR, Relay	335.00
2	6040-SRA100 1/16 DIN SSR, Relay, Retransmit , RS485	435.00
3	4040-SR0000 1/4 DIN SSR, Relay	490.00
4	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint	680.00
5	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet	825.00

Code	Overtemperature Controller Options	Adder
0	None	nc
1	6050-1R020 1/16 DIN Fixed 5A Relay, Relay, Digital Input	400.00
2	6050-1RA20 1/16 DIN Fixed 5A Relay, Relay, Retransmit, Digital Input	435.00
3	4050-1R020 1/4 DIN Fixed 5A Relay, Relay, Digital Input	555.00
4	4050-1RA20 1/4 DIN Fixed 5A Relay, Relay, Retransmit, Digital Input	590.00

Code	Options	Adder
0	None	nc
1	NEMA 7/4 Weather Proof Gasket for Out Door Applications	115.00
2	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch*	1,095.00
3	Cabinet Heater	565.00
4	Weather Proof Gasket and Ground Fault Monitor	1,210.00
5	Weather Proof Gasket and Cabinet Heater	680.00
6	Ground Fault Monitor and Cabinet Heater	1,660.00

4537 - 40 5 1 1 Typical Model Number (4537-40511)

\*Ground Fault detection requires grounded supply.

4232 Series SCR Panel

Model					
4232	Three Phase Two-Leg Zero Cross Fired SCR Power Control Panel				
<b>Panel Configuration</b>					
UL and cUL Listed Three Phase, 2- Leg Control, SCR Power Control Panel. Rated up to 1200 Amps at 208 to 600 Vac.					
<b>Standard Features:</b> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Main Magnetic Disconnect Switch with Shunt Trip Feature, Heat-Sink Overtemperature Lamp.					
<b>Optional Features:</b> Process Controller, Hi-Limit Controller, Ground Fault Monitor, Sub-Circuit Fusing for Heater Load, Shorted SCR Detection, Multi-meter (Amps & Volts) with Phase Selector Switch and Floor Stand Kit.					
Code	Current @ 40°C (104°F) Ambient (with no solar load)	SCR Component	Max Number of Fused Circuits	Enclosure Size HxWxD, In (cm)	Base Price
02	100 Amp	MXPCII-3-02-1-1-L0-F01-0	8	60 x 36 x 12 (152 x 92 x 31)	6,640.00
03	150 Amp	MXPCII-3-04-1-1-L0-F01-0	8	60 x 36 x 12 (152 x 92 x 31)	7,500.00
06	200 Amp	MXPCII-3-06-1-1-L0-F02-0	8	60 x 36 x 12 (152 x 92 x 31)	7,930.00
08	300 Amp	MXPCII-3-08-1-1-L0-F03-0	8	60 x 36 x 12 (152 x 92 x 31)	9,040.00
10	400 Amp	MXPCII-3-10-1-1-L0-F04-0	8	72 x 36 x 12 (183 x 92 x 31)	9,690.00
12	550 Amp	MXPCII-3-12-1-1-L0-F05-0	8	72 x 36 x 12 (183 x 92 x 31)	10,680.00
14	650 Amp	MXPCII-3-14-1-1-L0-F06-0	8	72 x 36 x 12 (183 x 92 x 31)	11,320.00
15 <sup>1</sup>	800 Amp	(2) MXPCII-3-10-1-1-L0-F04-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	17,390.00
16 <sup>1</sup>	1000 Amp	(2) MXPCII-3-12-1-1-L0-F05-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	21,900.00
17 <sup>1</sup>	1200 Amp	(2) MXPCII-3-14-1-1-L0-F06-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	23,820.00
Code	Voltage				
1	208 Vac				nc
2	240 Vac				nc
3	380 Vac				nc
4	415 Vac				nc
5	480 Vac				nc
6	575/600 Vac				125.00
Code	Process Controller Options				Adder
0	None				nc
1	4040-AR0000 1/4 DIN SSR, Relay				500.00
2	4040-ARA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint				695.00
3	4080-C0ARA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet				835.00
Code	Overtemperature Controller Options				Adder
0	None				nc
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				490.00
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				980.00
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				1,470.00
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				590.00
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				1,175.00
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				1,765.00
Code	Ground Fault Sensing/Interrupt & Shorted SCR Detection Option				Adder
0	None				nc
1	Shorted SCR Detection				315.00
2	Ground Fault Monitor & Shutdown, Illuminated Reset Switch (code 02-14)*				1,095.00
3	Ground Fault Monitor & Shutdown, Illuminated Reset Switch (code 15,16,17)				2,295.00
4	Ground Fault Monitor & Shorted SCR Detection (code 02-14)				1,410.00
5	Ground Fault Monitor & Shorted SCR Detection (code 15,16,17)				2,610.00
Code	Options				Adder
0	None				nc
4	Multimeter (Volts & Current)				1,960.00
Code	Load Fusing Option <sup>3,4</sup>				Adder/Ckt
9000	None				nc
9010(*)	8 Amps/ Circuit (10 Amp fuse)				190.00
9015(*)	12 Amps/ Circuit (15 Amp fuse)				190.00
9020(*)	16 Amps/ Circuit (20 Amp fuse)				190.00
9025(*)	20 Amps/ Circuit (25 Amp fuse)				190.00
9030(*)	24 Amps/ Circuit (30 Amp fuse)				190.00
9035(*)	28 Amps/ Circuit (35 Amp fuse)				200.00
9040(*)	32 Amps/ Circuit (40 Amp fuse)				200.00
9045(*)	36 Amps/ Circuit (45 Amp fuse)				200.00
9050(*)	40 Amps/ Circuit (50 Amp fuse)				200.00
9060(*)	48 Amps/ Circuit (60 Amp fuse)				200.00
9070(*)	56 Amps/ Circuit (70 Amp fuse)				250.00
9080(*)	64 Amps/ Circuit (80 Amp fuse)				320.00
9090(*)	72 Amps/ Circuit (90 Amp fuse)				320.00
9100(*)	80 Amps/ Circuit (100 Amp fuse)				320.00
9110(*)	88 Amps/ Circuit (110 Amp fuse)				660.00
9125(*)	100 Amps/ Circuit (125 Amp fuse)				660.00
9150(*)	120 Amps/ Circuit (150 Amp fuse)				660.00
9175(*)	140 Amps/ Circuit (175 Amp fuse)				660.00
9200(*)	160 Amps/ Circuit (200 Amp fuse)				660.00
4232 - 3 5 1 1 0 0 -	9025(5) Typical Model Number (4232-0351100-9025(5))				

\*Ground Fault detection requires grounded supply.

**Technical Notes:**

- <sup>1</sup>Includes Chromalox Load Management Module
- <sup>2</sup>Consult factory for 575/600 Vac Applications and Pricing
- <sup>3</sup>Load Fuse Current Rating Reflects 125% of Actual Load Amps.
- <sup>4</sup>Panel Codes 15, 16, and 17 (Maximum Sixteen Circuits of Load Fusing)
- \*Specify Number of Circuits (Maximum Eight Circuits of Load Fusing).
- Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.

4233 Series SCR Panel

Model

4233 Three Phase, Three-Leg, Zero Cross Fired, SCR Power Control Panel

Panel Configuration

UL and cUL Listed Three Phase, 3- Leg Control, SCR Power Control Panel. Rated up to 1200 Amps at 208 to 600 Vac.  
**Standard Features:** Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 12 rated Enclosure for Indoor Applications, Forced Air Cooling, Main Magnetic Disconnect Switch with Shunt Trip Feature, Heat-Sink Overtemperature Lamp.  
**Optional Features:** Process Controller, Hi-Limit Controller, Ground Fault Monitor, Sub-Circuit Fusing for Heater Load, Shorted SCR Detection, Multi-meter (Amps & Volts) with Phase Selector Switch and Floor Stand Kit.

Code	Current @ 40°C (104°F) Ambient	SCR Component	Max Number of Fused Circuits	Enclosure Size HxWxD, In (cm)	Base Price
02	100 Amp	MXPCIII-3-02-1-1-L0-F01-0	8	60 x 36 x 12 (152 x 92 x 31)	8,150.00
03	150 Amp	MXPCIII-3-04-1-1-L0-F01-0	8	60 x 36 x 12 (152 x 92 x 31)	9,690.00
06	200 Amp	MXPCIII-3-06-1-1-L0-F02-0	8	60 x 36 x 12 (152 x 92 x 31)	10,350.00
08	300 Amp	MXPCIII-3-08-1-1-L0-F03-0	8	60 x 36 x 12 (152 x 92 x 31)	11,350.00
10	400 Amp	MXPCIII-3-10-1-1-L0-F04-0	8	72 x 36 x 12 (183 x 92 x 31)	12,275.00
12	550 Amp	MXPCIII-3-12-1-1-L0-F05-0	8	72 x 36 x 12 (183 x 92 x 31)	13,575.00
14	650 Amp	MXPCIII-3-14-1-1-L0-F06-0	8	72 x 36 x 12 (183 x 92 x 31)	14,875.00
15 <sup>1</sup>	800 Amp	(2) MXPCIII-3-10-1-1-L0-F04-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	21,925.00
16 <sup>1</sup>	1000 Amp	(2) MXPCIII-3-12-1-1-L0-F05-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	27,075.00
17 <sup>1</sup>	1200 Amp	(2) MXPCIII-3-14-1-1-L0-F06-0	16	72 x 72 x 12 (183 x 183 x 31) Floor Mount	30,300.00

Code	Voltage	Adder
1	208 Vac	nc
2	240 Vac	nc
3	380 Vac	nc
4	415 Vac	nc
5	480 Vac	nc
6	575/600 Vac	125.00

Code	Process Controller Options	Adder
0	None	nc
1	4040-AR0000 1/4 DIN SSR, Relay	500.00
2	4040-ARA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint	695.00
3	4080-C0ARA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet	835.00

Code	Overtemperature Controller Options	Adder
0	None	nc
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	490.00
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	980.00
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	1,470.00
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	590.00
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	1,175.00
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	1,765.00

Code	Ground Fault Sensing/Interrupt & Shorted SCR Detection Option	Adder
0	None	nc
1	Shorted SCR Detection	315.00
2	Ground Fault Monitor & Shutdown, Illuminated Reset Switch (code 02-14) <sup>2</sup>	1,095.00
3	Ground Fault Monitor & Shutdown, Illuminated Reset Switch (code 15,16,17)	2,300.00
4	Ground Fault Monitor & Shorted SCR Detection (code 02-14)	1,410.00
5	Ground Fault Monitor & Shorted SCR Detection (code 15,16,17)	2,615.00

Code	Options	Adder
0	None	nc
4	Multimeter (Volts & Current)	1,960.00

Code	Load Fusing Option <sup>3,4</sup>	Adder/Ckt
9000	None	nc
9010(*)	8 Amps/ Circuit (10 Amp fuse)	190.00
9015(*)	12 Amps/ Circuit (15 Amp fuse)	190.00
9020(*)	16 Amps/ Circuit (20 Amp fuse)	190.00
9025(*)	20 Amps/ Circuit (25 Amp fuse)	190.00
9030(*)	24 Amps/ Circuit (30 Amp fuse)	190.00
9035(*)	28 Amps/ Circuit (35 Amp fuse)	200.00
9040(*)	32 Amps/ Circuit (40 Amp fuse)	200.00
9045(*)	36 Amps/ Circuit (45 Amp fuse)	200.00
9050(*)	40 Amps/ Circuit (50 Amp fuse)	200.00
9060(*)	48 Amps/ Circuit (60 Amp fuse)	200.00
9070(*)	56 Amps/ Circuit (70 Amp fuse)	250.00
9080(*)	64 Amps/ Circuit (80 Amp fuse)	320.00
9090(*)	72 Amps/ Circuit (90 Amp fuse)	320.00
9100(*)	80 Amps/ Circuit (100 Amp fuse)	320.00
9110(*)	88 Amps/ Circuit (110 Amp fuse)	660.00
9125(*)	100 Amps/ Circuit (125 Amp fuse)	660.00
9150(*)	120 Amps/ Circuit (150 Amp fuse)	660.00
9175(*)	140 Amps/ Circuit (175 Amp fuse)	660.00
9200(*)	160 Amps/ Circuit (200 Amp fuse)	660.00

4232 - 03 5 1 1 0 0 - 9025(5) Typical Model Number (4233-0351100-9025(5))

Technical Notes:

- <sup>1</sup>Includes Chromalox Load Management Module
- <sup>2</sup>Consult factory for 575 Vac Applications and Pricing
- <sup>3</sup>Load Fuse Current Rating Reflects 125% of Actual Load Amps.
- <sup>4</sup>Panel Codes 15, 16, and 17 (Maximum Sixteen Circuits of Load Fusing)
- <sup>5</sup>Ground Fault detection requires grounded supply.
- <sup>\*</sup>Specify Number of Circuits (Maximum Eight Circuits of Load Fusing).  
Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.

### 4235 Series SCR Panel

Model							
4235 Three Phase Two-Leg Zero Cross Fired SCR Power Control Panel - NEMA 4							
Panel Configuration							
UL and cUL Listed Three Phase SCR Power Control Panel rated up to 432 Amps at 208 – 600 Vac, from 1 to 6 circuits. <u>Standard Features:</u> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4 rated Enclosure for Indoor/Outdoor Applications with External Heat Sinks, Main Magnetic Disconnect Switch with Shunt Trip Feature and Sub-Circuit Fusing. <u>Optional Features:</u> Process Controller, Hi-Limit Controller, Load Management Module, Ground Fault Monitor, Multi-meter (Amps & Volts) with Phase Selector Switch, Enclosure Heater and Type "Z" Purge Pressurization System.							
Code	Circuits	Current @ 40°C (104°F) Ambient (with no Solar Load <sup>3</sup> )			Enclosure Size HxWxD, In (cm)	Base Price	
		Max. Amps/Ckt	Total Amps	Fuse Amps/Ckt <sup>2</sup>			
124	1	24	24	30	24 x 24 x 10 (61 x 61 x 25)	4,230.00	
148	1	48	48	60	24 x 24 x 10 (61 x 61 x 25)	4,560.00	
172	1	72	72	90	24 x 24 x 10 (61 x 61 x 25)	4,800.00	
224	2	24	48	30	24 x 24 x 10 (61 x 61 x 25)	5,800.00	
248	2	48	96	60	36 x 30 x 10 (91 x 76 x 25)	6,000.00	
272	2	72	144	90	36 x 30 x 10 (91 x 76 x 25)	6,640.00	
324	3	24	72	30	36 x 30 x 10 (91 x 76 x 25)	7,390.00	
348	3	48	144	60	48 x 36 x 10 (122 x 91 x 25)	8,400.00	
372	3	72	216	90	48 x 36 x 10 (122 x 91 x 25)	9,050.00	
424	4	24	96	30	48 x 36 x 10 (122 x 91 x 25)	9,225.00	
448	4	48	192	60	48 x 36 x 10 (122 x 91 x 25)	9,500.00	
472	4	72	288	90	60 x 36 x 12 (152 x 92 x 31)	10,975.00	
524	5	24	120	30	48 x 36 x 10 (122 x 91 x 25)	11,350.00	
548	5	48	240	60	48 x 36 x 10 (122 x 91 x 25)	11,625.00	
572	5	72	360	90	62 x 60 x 12 (157 x 152 x 31) Floor Mount	14,875.00	
624	6	24	144	30	60 x 36 x 12 (152 x 92 x 31)	16,150.00	
648	6	48	288	60	60 x 36 x 12 (152 x 92 x 31)	16,800.00	
672	6	72	432	90	62 x 60 x 12 (157 x 152 x 31) Floor Mount	17,400.00	
Code	Voltage						Adder
1	208 Vac						nc
2	240 Vac						nc
3	380 Vac						nc
4	415 Vac						nc
5	480 Vac						nc
6	575/600 Vac						125.00
Code	Process Controller Options						Adder
0	<sup>1</sup> Customer supplied SSR drive signal (12-24Vdc @ 120 mA)						nc
1	4040-SR0000 1/4 DIN SSR, Relay						490.00
2	Customer supplied 4-20mA Input to Load Management Module						1,005.00
3	4040-SR0000 1/4 DIN SSR, Relay & Load Management Module						955.00
4	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint						680.00
5	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint & Load Management Module						1,145.00
6	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet						825.00
7	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet & Load Management Module						1,290.00
Code	Overtemperature Controller Options						Adder
0	None						nc
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay						490.00
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay						980.00
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay						1,470.00
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485						590.00
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485						1,180.00
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485						1,770.00
Code	Ground Fault Sensing/Interrupt, Cabinet Heater & "Z" Purge Pressurization Option						Adder
0	None						nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch <sup>3</sup>						1,095.00
2	Cabinet Heater						565.00
3	"Z" Purge Pressurization System						3,910.00
4	Ground Fault Monitor & Cabinet Heater						1,660.00
5	Ground Fault Monitor and "Z" Purge System						5,005.00
6	Ground Fault Monitor, Cabinet Heater and "Z" Purge System						5,570.00
7	Cabinet Heater and "Z" Purge System						4,475.00
Code	Options						Adder
0	None						nc
4	Multimeter (Volts & Current)						1,960.00
4235 -	624	5	3	1	1	0	Typical Model Number (4235-62453110)

**Technical Notes:**

<sup>1</sup>Code 0: Up to Two Circuits Maximum.

<sup>2</sup>Load Fuse Current Rating Reflects 125% of Actual Load Amps.

<sup>3</sup>Ground Fault detection requires grounded supply.

4236 SCR Series Panel

Model							
4236	Three Phase Two-Leg Zero Cross Fired SCR Power Control Panel - NEMA 4X						
Panel Configuration							
UL and cUL Listed Three Phase SCR Power Control Panel rated up to 432 Amps at 208 – 600 Vac, from 1 to 6 circuits. <u>Standard Features:</u> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4X rated Enclosure for Indoor/Outdoor Applications with External Heat Sinks, Main Magnetic Disconnect Switch with Shunt Trip Feature and Sub-Circuit Fusing. <u>Optional Features:</u> Process Controller, Hi-Limit Controller, Load Management Module, Ground Fault Monitor, Multi-meter (Amps & Volts) with Phase Selector Switch, Enclosure Heater and Type "Z" Purge Pressurization System.							
Code	Circuits	Current @ 35°C (95°F) Ambient (with no Solar Load <sup>3</sup> )			Enclosure Size HxWxD, in (cm)	Base Price	
		Max. Amps/Ckt	Total Amps	Fuse Amps/Ckt <sup>2</sup>			
124	1	24	24	30	24 x 24 x 10 (61 x 61 x 25)	4,770.00	
148	1	48	48	60	24 x 24 x 10 (61 x 61 x 25)	5,170.00	
172	1	72	72	90	24 x 24 x 10 (61 x 61 x 25)	5,360.00	
224	2	24	48	30	24 x 24 x 10 (61 x 61 x 25)	6,450.00	
248	2	48	96	60	36 x 30 x 10 (91 x 76 x 25)	7,390.00	
272	2	72	144	90	36 x 30 x 10 (91 x 76 x 25)	7,980.00	
324	3	24	72	30	36 x 30 x 10 (91 x 76 x 25)	8,775.00	
348	3	48	144	60	48 x 36 x 10 (122 x 91 x 25)	10,125.00	
372	3	72	216	90	48 x 36 x 10 (122 x 91 x 25)	10,975.00	
424	4	24	96	30	48 x 36 x 10 (122 x 91 x 25)	11,125.00	
448	4	48	192	60	48 x 36 x 10 (122 x 91 x 25)	11,525.00	
472	4	72	288	90	60 x 36 x 12 (152 x 92 x 31)	12,925.00	
524	5	24	120	30	48 x 36 x 10 (122 x 91 x 25)	13,250.00	
548	5	48	240	60	48 x 36 x 10 (122 x 91 x 25)	13,575.00	
572	5	72	360	90	62 x 60 x 12 (157 x 152 x 31) Floor Mount	21,925.00	
624	6	24	144	30	60 x 36 x 12 (152 x 92 x 31)	22,575.00	
648	6	48	288	60	60 x 36 x 12 (152 x 92 x 31)	23,225.00	
672	6	72	432	90	62 x 60 x 12 (157 x 152 x 31) Floor Mount	23,850.00	
Code	Voltage					Adder	
1	208 Vac					nc	
2	240 Vac					nc	
3	380 Vac					nc	
4	415 Vac					nc	
5	480 Vac					nc	
6	575/600 Vac					125.00	
Code	Process Controller Options				Adder		
0	<sup>1</sup> Customer supplied SSR drive signal (12-24Vdc @ 120 mA)				nc		
1	4040-SR0000 1/4 DIN SSR, Relay				490.00		
2	Customer supplied 4-20mA Input to Load Management Module				1,005.00		
3	4040-SR0000 1/4 DIN SSR, Relay & Load Management Module				955.00		
4	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint				680.00		
5	4040-SRA110 1/4 DIN SSR, Relay, Retransmit, RS485, Remote Setpoint & Load Management Module				1,145.00		
6	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet				825.00		
7	4080-C0SRA-04000 1/4 DIN Graphic Display, SSR, Relay, Retransmit, Ethernet & Load Management Module				1,290.00		
Code	Overtemperature Controller Options				Adder		
0	None				nc		
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				490.00		
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				980.00		
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay				1,470.00		
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				590.00		
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				1,180.00		
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485				1,770.00		
Code	Current Leakage, Cold Environment & Hazardous Area Options				Adder		
0	None				nc		
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch <sup>4</sup>				1,095.00		
2	Cabinet Heater				565.00		
3	"Z" Purge Pressurization System				3,910.00		
4	Ground Fault Monitor & Cabinet Heater				1,660.00		
5	Ground Fault Monitor and "Z" Purge System				5,005.00		
6	Ground Fault Monitor, Cabinet Heater and "Z" Purge System				5,570.00		
7	Cabinet Heater and "Z" Purge System				4,475.00		
Code	Options		Adder				
0	None		nc				
4	Multimeter (Volts & Current)		1,960.00				
4236 -	624	5	3	1	0	0	Typical Model Number (4236-62453100)

Technical Notes:

- <sup>1</sup>Code 0: Up to Two Circuits Maximum.
  - <sup>2</sup>Load Fuse Current Rating Reflects 125% of Actual Load Amps.
  - <sup>3</sup>Ambient rating based on all sides of enclosure dissipating heat
  - <sup>4</sup>Ground Fault detection requires grounded supply.
- Control Panel UL and cUL rated for NEMA 4

## IntelliPANEL™ Series 1 SCR Panel

Model					
IPZ2	Three Phase Two-Leg Zero Fired SCR Power Control Panel				
<b>Panel Configuration</b>					
<b>Real Time Process Indicators:</b> Heater Current Line Voltage Load Power Measurement (kW / kW/Hr) Duty Cycle (0 - 100 %) Ground Fault Leakage Trending Life Factor Measurement Resistance Monitoring Inlet / Outlet / Shell Temperatures Historical Hi / Low Temperature Indication & Record	<b>Operational Features</b> Global Alarm Display Alarm Setup, Mapping and Configuration Interlock Status Display Interlock Setup & Configuration Real Time Trending (Six Pens) Heater Graphics RS-485 MODBUS™ Communications Eight Sensor Inputs Selectable in Groups of Four J, K, E Thermocouples or RTD's Loop ID / Tagging Hand / Off / Auto Selection Language Selection Option (contact factory)	<b>Operational Features</b> Security Code Protection Ramp-to-Setpoint Built-In Help and Trouble Shooting Pages <b>Selectable Control Setups:</b> Single Loop Differential <b>Cascade:</b> Outlet and Sheath Process and Sheath Remote 4 - 20 mA Command Signal			
<b>Code</b>	<b>Current @ 40°C (104°F) Ambient</b>	<b>SCR Component</b>	<b>Max. Number Circuits</b>	<b>Type 12 Enclosure Dimensions<sup>3</sup> H x W x D, In (cm)</b>	<b>Base Price</b>
02	100 Amp	MXPCII-4-02-1-1-L0-F01-0	4	72 x 36 x 12 (183 x 92 x 31)	19,825.00
03	150 Amp	MXPCII-4-04-1-1-L0-F01-0	4	72 x 36 x 12 (183 x 92 x 31)	20,050.00
06	200 Amp	MXPCII-4-06-1-1-L0-F02-0	4	72 x 36 x 12 (183 x 92 x 31)	20,400.00
08	300 Amp	MXPCII-4-08-1-1-L0-F03-0	4	72 x 36 x 12 (183 x 92 x 31)	21,825.00
10	400 Amp	MXPCII-4-10-1-1-L0-F04-0	4	72 x 36 x 12 (183 x 92 x 31)	22,250.00
12 <sup>1</sup>	550 Amp	MXPCII-4-12-1-1-L0-F05-0	8	60 x 60 x 12 (152 x 152 x 31)	25,200.00
14 <sup>1</sup>	650 Amp	MXPCII-4-14-1-1-L0-F06-0	8	60 x 60 x 12 (152 x 152 x 31)	25,650.00
15 <sup>1</sup>	800 Amp	(2) MXPCII-4-10-1-1-L0-F04-0	12	72 x 72 x 12 (183 x 183 x 31)	30,975.00
16 <sup>1</sup>	1000 Amp	(2) MXPCII-4-12-1-1-L0-F05-0	12	72 x 72 x 12 (183 x 183 x 31)	33,950.00
17 <sup>1</sup>	1200 Amp	(2) MXPCII-4-14-1-1-L0-F06-0	12	72 x 72 x 12 (183 x 183 x 31)	35,500.00
<b>Code</b>	<b>Voltage<sup>2</sup></b>				<b>Adder</b>
1	208 Vac				nc
2	240 Vac				nc
3	380 Vac				nc
4	400 Vac				nc
5	415 Vac				nc
6	480 Vac				nc
<b>Code</b>	<b>Sensor Options</b>				<b>Adder</b>
J	(8) J Thermocouple Sensor Inputs (1 - 8)				nc
K	(8) K Thermocouple Sensor Inputs (1 - 8)				nc
JK	(4) J Thermocouple Sensor Inputs (1 - 4) and (4) K Thermocouple Sensor Inputs (5 - 8)				nc
KJ	(4) K Thermocouple Sensor Inputs (1 - 4) and (4) J Thermocouple Sensor Inputs (5 - 8)				nc
R	(8) RTD Sensor Inputs (1 - 8)				nc
RJ	(4) RTD Sensor Inputs (1 - 4) and (4) J Thermocouple Sensor Inputs (5 - 8)				nc
RK	(4) RTD Sensor Inputs (1 - 4) and (4) K Thermocouple Sensor Inputs (5 - 8)				nc
JR	(4) J Thermocouple Sensor Inputs (1 - 4) and (4) RTD Sensor Inputs (5 - 8)				nc
KR	(4) K Thermocouple Sensor Inputs (1 - 4) and (4) RTD Sensor Inputs (5 - 8)				nc
<b>Code</b>	<b>Overtemperature Controller Options</b>				<b>Adder</b>
0	None				nc
1	One 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Sheath)				435.00
2	Two 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (One Sheath, One Shell)				870.00
3	Two 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Two Sheath)				870.00
4	Three 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Two Sheath, One Shell)				1,305.00
5	Three 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Three Sheath)				1,305.00
<b>Code</b>	<b>Communications Option</b>				<b>Adder</b>
0	None				nc
1	RS485 / 422 MODBUS™				955.00

							<b>Code</b>	<b>Remote On / Off Shutdown Contactor Option (per Sub-Circuit)</b>	<b>Adder / Contactor</b>
							0	None	nc
							1(*)	Industrial Three-Pole Contactor 25 Amp Rating	160.00
							2(*)	Industrial Three-Pole Contactor 35 Amp Rating	170.00
							3(*)	Industrial Three-Pole Contactor 40 Amp Rating	180.00
							4(*)	Industrial Three-Pole Contactor 50 Amp Rating	190.00
							5(*)	Industrial Three-Pole Contactor 60 Amp Rating	215.00
							6(*)	Industrial Three-Pole Contactor 70 Amp Rating	220.00
							7(*)	Industrial Three-Pole Contactor 80 Amp Rating	270.00
							8(*)	Industrial Three-Pole Contactor 110 Amp Rating	300.00
							<b>Code</b>	<b>Load Circuit Breaker Option (Thermal Magnetic Circuit Breakers)</b>	<b>Adder/Ckt</b>
							9000	None	nc
							9025(*)	20 Amps/Ckt (25 Amp Circuit Breaker)	335.00
							9030(*)	24 Amps/Ckt (30 Amp Circuit Breaker)	335.00
							9035(*)	28 Amps/Ckt (35 Amp Circuit Breaker)	335.00
							9040(*)	32 Amps/Ckt (40 Amp Circuit Breaker)	335.00
							9045(*)	36 Amps/Ckt (45 Amp Circuit Breaker)	335.00
							9050(*)	40 Amps/Ckt (50 Amp Circuit Breaker)	335.00
							9060(*)	48 Amps/Ckt (60 Amp Circuit Breaker)	335.00
							9070(*)	56 Amps/Ckt (70 Amp Circuit Breaker)	375.00
							9080(*)	64 Amps/Ckt (80 Amp Circuit Breaker)	375.00
							9090(*)	72 Amps/Ckt (90 Amp Circuit Breaker)	375.00
							9100(*)	80 Amps/Ckt (100 Amp Circuit Breaker)	375.00
							9110(*)	88 Amps/Ckt (110 Amp Circuit Breaker)	760.00
IPZ2 -	03	5	J	2	1	4(3)	- 9070(3)	Typical Model Number	(IPZ2-03J214(3)-9070(3))

**Technical Notes:**

<sup>1</sup>Enclosure for codes 12, 14, 15, 16, and 17 are Floor-Mount Designs

<sup>2</sup>Consult Factory for 575/600 Vac Applications and Pricing

<sup>3</sup>Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.

\* Specify Quantity of Circuits

## IntelliPANEL™ Series 1 SCR Panel

**Model**

**IPZ3 Three Phase Three-Leg Zero Fired SCR Power Control Panel**

**Panel Configuration**

**Real Time Process Indicators:**

- Heater Current
- Line Voltage
- Load Power Measurement (kW / kW/Hr)
- Duty Cycle (0 - 100 %)
- Ground Fault Leakage Trending
- Life Factor Measurement
- Resistance Monitoring
- Inlet / Outlet / Shell Temperatures
- Historical Hi / Low Temperature Indication & Record

**Operational Features**

- Global Alarm Display
- Alarm Setup, Mapping and Configuration
- Interlock Status Display
- Interlock Setup & Configuration
- Real Time Trending (Six Pens)
- Heater Graphics
- RS-485 MODBUS™ Communications
- Eight Sensor Inputs Selectable in Groups of Four J, K, E Thermocouples or RTD's
- Loop ID / Tagging
- Hand / Off / Auto Selection
- Language Selection Option (contact factory)

**Operational Features**

- Security Code Protection
- Ramp-to-Setpoint
- Built-In Help and Trouble Shooting Pages

**Selectable Control Setups:**

- Single Loop
- Differential

**Cascade:**

- Outlet and Sheath
- Process and Sheath
- Remote 4 - 20 mA Command Signal

Code	Current @ 40°C (104°F) Ambient	SCR Component	Max. Number Circuits	Type 12 Enclosure Dimensions <sup>3</sup> H x W x D, In (cm)	Base Price
02	100 Amp	MXPCIII-4-02-1-1-L0-F01-0	4	60 x 48 x 12 (152 x 122 x 31)	21,425.00
03	150 Amp	MXPCIII-4-04-1-1-L0-F01-0	4	60 x 48 x 12 (152 x 122 x 31)	21,575.00
06	200 Amp	MXPCIII-4-06-1-1-L0-F02-0	4	60 x 48 x 12 (152 x 122 x 31)	22,425.00
08	300 Amp	MXPCIII-4-08-1-1-L0-F03-0	4	60 x 48 x 12 (152 x 122 x 31)	24,000.00
10	400 Amp	MXPCIII-4-10-1-1-L0-F04-0	4	60 x 48 x 12 (152 x 122 x 31)	24,850.00
12 <sup>1</sup>	550 Amp	MXPCIII-4-12-1-1-L0-F05-0	8	72 x 60 x 12 (183 x 152 x 31)	28,100.00
14 <sup>1</sup>	650 Amp	MXPCIII-4-14-1-1-L0-F06-0	8	72 x 60 x 12 (183 x 152 x 31)	28,375.00
15 <sup>1</sup>	800 Amp	(2) MXPCIII-4-10-1-1-L0-F04-0	16	84 x 112 x 14 (214 x 284 x 36)	38,075.00
16 <sup>1</sup>	1000 Amp	(2) MXPCIII-4-12-1-1-L0-F05-0	16	84 x 112 x 14 (214 x 284 x 36)	41,275.00
17 <sup>1</sup>	1200 Amp	(2) MXPCIII-4-14-1-1-L0-F06-0	16	84 x 112 x 14 (214 x 284 x 36)	43,825.00

Code	Voltage <sup>2</sup>	Adder
1	208 Vac	nc
2	240 Vac	nc
3	380 Vac	nc
4	400 Vac	nc
5	415 Vac	nc
6	480 Vac	nc

Code	Sensor Options	Adder
J	(8) J Thermocouple Sensor Inputs (1 - 8)	nc
K	(8) K Thermocouple Sensor Inputs (1 - 8)	nc
JK	(4) J Thermocouple Sensor Inputs (1 - 4) and (4) K Thermocouple Sensor Inputs (5 - 8)	nc
KJ	(4) K Thermocouple Sensor Inputs (1 - 4) and (4) J Thermocouple Sensor Inputs (5 - 8)	nc
R	(8) RTD Sensor Inputs (1 - 8)	nc
RJ	(4) RTD Sensor Inputs (1 - 4) and (4) J Thermocouple Sensor Inputs (5 - 8)	nc
RK	(4) RTD Sensor Inputs (1 - 4) and (4) K Thermocouple Sensor Inputs (5 - 8)	nc
JR	(4) J Thermocouple Sensor Inputs (1 - 4) and (4) RTD Sensor Inputs (5 - 8)	nc
KR	(4) K Thermocouple Sensor Inputs (1 - 4) and (4) RTD Sensor Inputs (5 - 8)	nc

Code	Overtemperature Controller Options	Adder
0	None	nc
1	One 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Sheath)	435.00
2	Two 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (One Sheath, One Shell)	870.00
3	Two 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Two Sheath)	870.00
4	Three 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Two Sheath, One Shell)	1,305.00
5	Three 6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485 (Three Sheath)	1,305.00

Code	Communications Option	Adder
0	None	nc
1	RS485 / 422 MODBUS™	955.00

							<b>Code</b>	<b>Remote On / Off Shutdown Contactor Option (per Sub-Circuit)</b>	<b>Adder / Contactor</b>
							0	None	nc
							1(*)	Industrial Three-Pole Contactor 25 Amp Rating	160.00
							2(*)	Industrial Three-Pole Contactor 35 Amp Rating	170.00
							3(*)	Industrial Three-Pole Contactor 40 Amp Rating	180.00
							4(*)	Industrial Three-Pole Contactor 50 Amp Rating	190.00
							5(*)	Industrial Three-Pole Contactor 60 Amp Rating	215.00
							6(*)	Industrial Three-Pole Contactor 70 Amp Rating	220.00
							7(*)	Industrial Three-Pole Contactor 80 Amp Rating	270.00
							8(*)	Industrial Three-Pole Contactor 110 Amp Rating	300.00
							<b>Code</b>	<b>Load Circuit Breaker Option (Thermal Magnetic Circuit Breakers)</b>	<b>Adder/Ckt</b>
							9000	None	nc
							9025(*)	20 Amps/Ckt (25 Amp Circuit Breaker)	335.00
							9030(*)	24 Amps/Ckt (30 Amp Circuit Breaker)	335.00
							9035(*)	28 Amps/Ckt (35 Amp Circuit Breaker)	335.00
							9040(*)	32 Amps/Ckt (40 Amp Circuit Breaker)	335.00
							9045(*)	36 Amps/Ckt (45 Amp Circuit Breaker)	335.00
							9050(*)	40 Amps/Ckt (50 Amp Circuit Breaker)	335.00
							9060(*)	48 Amps/Ckt (60 Amp Circuit Breaker)	335.00
							9070(*)	56 Amps/Ckt (70 Amp Circuit Breaker)	375.00
							9080(*)	64 Amps/Ckt (80 Amp Circuit Breaker)	375.00
							9090(*)	72 Amps/Ckt (90 Amp Circuit Breaker)	375.00
							9100(*)	80 Amps/Ckt (100 Amp Circuit Breaker)	375.00
							9110(*)	88 Amps/Ckt (110 Amp Circuit Breaker)	425.00
IPZ3 -	03	6	J	2	1	4(3)	- 9070(3)	Typical Model Number	(IPZ3-036J214(3)-9070(3))

**Technical Notes:**

<sup>1</sup>Enclosure for codes 12, 14, 15, 16, and 17 are Floor-Mount Designs

<sup>2</sup>Consult Factory for 575/600 Vac Applications and Pricing

<sup>3</sup>Ventilated NEMA 12 Enclosure Derates Enclosure to NEMA 1.

\* Specify Quantity of Circuits

### 4464 / 4466 / 4468 Contactor Panel

3 Phase Contactor Power Control Panel

Model	NEMA Rating	Enclosure Material	Enclosure Size No Fusing Option H x W x D, In (cm)	Enclosure Size with Fusing Option H x W x D, In (cm)	Base Price
4464	4X	304 Stainless	20 x 16 x 10 (51 x 41 x 25)	20 x 16 x 10 (51 x 41 x 25)	1,130.00
4466	4	Painted Steel	20 x 16 x 8 (51 x 41 x 20)	20 x 16 x 8 (51 x 41 x 20)	785.00
4468	4X	Fiberglas®	16 x 14 x 8 (41 x 36 x 20)	18 x 16 x 10 (46 x 41 x 25)	670.00

**Panel Configuration**

UL and cUL Listed Three Phase Contactor Power Control Panel rated up to 100 Amps at 120 – 600 Vac. Choose from three enclosure options for Indoor or Outdoor applications.

Standard Features: Factory pre-wired for quick installation, Step-down Transformer & Secondary Fusing for 120 volt Control Circuit, Three-Pole Control Contactor.

Optional Features: Cabinet Heater, Main Disconnect Switch, Process Controller, Hi-Limit Controller and Load Fusing.

Code	Current @ 40°C (104°F) Ambient	Adder
3	40 Amp	155.00
6	75 Amp	220.00
9	100 Amp	285.00

Code	Line Voltage	Adder
0	120/208/240/480 VAC	nc
1	575/600 VAC	325.00
9	Special	Consult Sales

Code	Process Controller Options	Adder
0	Terminal Block for Customer Supplied Control Signal (Dry Contact or Soldis State Relay, 120 Vac)	nc
1	6040-RR0000 1/16 DIN Relay, Relay	335.00
2	6040-RRA100 1/16 DIN Relay, Relay, Retransmit, RS485	435.00
3	4040-RR0000 1/4 DIN Relay, Relay	490.00
4	4040-RRA110 1/4 DIN Relay, Relay, Retransmit, RS485, Remote Setpoint	680.00

Code	Options	Adder
0	None	nc
1	Main Disconnect Switch	205.00
2	Enclosure Heater	565.00
3	Main Disconnect Switch & Enclosure Heater	770.00

Code	Overtemperature Controller Options	Adder
0	None	nc
1	6050-1R000 1/16 DIN Fixed 5A Relay, Relay	335.00
2	6050-1RA10 1/16 DIN Fixed 5A Relay, Relay, Retransmit, RS485	435.00
3	4050-1R000 1/4 DIN Fixed 5A Relay, Relay	490.00
4	4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	590.00

Code	Load Fusing Option	Adder/Ckt
Blank	None	nc
9010(*)	8 Amps/Circuit (10 Amp fuse)	190.00
9015(*)	12 Amps/Circuit (15 Amp fuse)	190.00
9020(*)	16 Amps/Circuit (20 Amp fuse)	190.00
9025(*)	20 Amps/Circuit (25 Amp fuse)	190.00
9030(*)	24 Amps/Circuit (30 Amp fuse)	190.00
9035(*)	28 Amps/Circuit (35 Amp fuse)	190.00
9040(*)	32 Amps/Circuit (40 Amp fuse)	200.00
9045(*)	36 Amps/Circuit (45 Amp fuse)	200.00
9050(*)	40 Amps/Circuit (50 Amp fuse)	200.00
9060(*)	48 Amps/Circuit (60 Amp fuse)	200.00
9070(*)	56 Amps/Circuit (70 Amp fuse)	250.00
9080(*)	64 Amps/Circuit (80 Amp fuse)	320.00
9090(*)	72 Amps/Circuit (90 Amp fuse)	320.00
9100(*)	80 Amps/Circuit (100 Amp fuse)	320.00
9110(*)	88 Amps/Circuit (110 Amp fuse)	660.00
9125(*)	100 Amps/Circuit (125 Amp fuse)	660.00

\*Specify Number of Circuits (Maximum Three Circuits of Load Fusing).

4468 - 3 0 1 1 1 - 9025(3) Typical Model Number (4468-30111)

**In Stock**

Model	PCN	List Price
4468-30100	360022	1,160.00
4468-30101	314798	1,495.00
4468-30110	314800	1,365.00
4468-30111	314819	1,700.00

New  
New  
New  
New

Model	PCN	List Price
4468-60100	360073	1,225.00
4468-60101	314827	1,560.00
4468-60110	314835	1,430.00
4468-60111	314843	1,765.00

New  
New  
New  
New

## 4463 Series Contactor Panel

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**Model**

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4463 **Multi-Zone Contactor Power Control Panel NEMA 4X Rated**

**Panel Configuration**

UL and cUL Listed Three Phase or Single Phase Contactor Power Control Panel with 1 – 4 Independent 40 Amp Zones at 240 or 480 Vac.  
Standard Features: Factory pre-wired for quick installation, NEMA 4X rated Enclosure, Terminal Blocks for Customer supplied 120 Vac Control Power and one Digital Process Temperature Controller for each Zone.

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Code	Control Zones	Enclosure Size HxWxD, In (cm)	Base Price
10	One 6040-RR0000 1/16 DIN Relay, Relay with One Three-Pole 40 Amp rated Industrial Contactor	16 x 14 x 8 (41 x 36 x 20)	1,235.00
20	Two 6040-RR0000 1/16 DIN Relay, Relay with Two Three-Pole 40 Amp rated Industrial Contactors	16 x 14 x 8 (41 x 36 x 20)	1,530.00
30	Three 6040-RR0000 1/16 DIN Relay, Relay with Three Three-Pole 40 Amp rated Industrial Contactors	16 x 14 x 8 (41 x 36 x 20)	2,115.00
40	Four 6040-RR0000 1/16 DIN Relay, Relay with Four Three-Pole 40 Amp rated Industrial Contactors	16 x 14 x 8 (41 x 36 x 20)	2,460.00

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**Code**

000 Add to Complete Model Number

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4463 - 30 000 Typical Model Number (4463-30000)

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### 4477 Series Contactor Panel

Model					
4477	<b>Three Phase MINI Explosion-Proof Contactor Power Control Panel - Class I, Division II</b>				
<b>Panel Configuration</b>					
Three Phase Contactor Power Control Panel rated up to 45 & 75 Amps and is suitable for Class 1, Div. 1 & 2, Group C & D Areas.					
<u>Standard Features:</u> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 7/4 rated Explosion-Proof Enclosure for Indoor/Outdoor Hazardous Areas, Main Thermal Magnetic Disconnect Switch, Three-Pole Contactor for Power Switching.					
<u>Optional Features:</u> Process Controller, Hi-Limit Controller, Panel Door Viewing Window, Enclosure Heater, and Ground Fault Monitor.					
Code	Current @ 40°C (104°F) Ambient	Enclosure Dimensions HxWxD, In (cm)		Base Price	
40	45 Amp	29 x 21 x 9	(74 x 53 x 23)	7,570.00	
75	75 Amp	29 x 21 x 9	(74 x 53 x 23)	8,310.00	
Code	Process Controller Options			Adder	
0	Terminal Block for Customer Supplied Control (Dry Contact or Solid State Switch, 120 Vac)			nc	
1	6040-RR0000 1/16 DIN Relay, Relay			335.00	
2	6040-RRA100 1/16 DIN Relay, Relay, Retransmit , RS485			435.00	
3	4040-RR0000 1/4 DIN Relay, Relay			490.00	
4	4040-RRA110 1/4 DIN Relay, Relay, Retransmit, RS485, Remote Setpoint			680.00	
Code	Overtemperature Controller Options			Adder	
0	None			nc	
1	6050-1R020 1/16 DIN Fixed 5A Relay, Relay, Digital Input			400.00	
2	6050-1RA20 1/16 DIN Fixed 5A Relay, Relay, Retransmit, Digital Input			435.00	
3	4050-1R020 1/4 DIN Fixed 5A Relay, Relay, Digital Input			555.00	
4	4050-1RA20 1/4 DIN Fixed 5A Relay, Relay, Retransmit, Digital Input			590.00	
Code	Options			Adder	
0	None			nc	
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch			1,095.00	
2	Enclosure Heater			565.00	
3	Enclosure Door Viewing Window			455.00	
4	Ground Fault Monitor & Enclosure Heater			1,660.00	
5	Ground Fault Monitor & Enclosure Viewing Window			1,550.00	
6	Ground Fault Monitor, Enclosure Heater, and Enclosure Viewing Window			2,115.00	
7	Enclosure Heater and Enclosure Viewing Window			1,020.00	
4477 -	40	2	1	3	Typical Model Number (4477-40213)

4432 Series Power Contactor Panel

Model							
4432 Three Phase Contactor Power Control Panel with Optional SCR Trim Load Control							
Panel Configuration							
UL / cUL Listed 3-Phase Contactor Power Control Panel rated up to 576 total Amps at 208 - 480 Vac, from 1 to 6 circuits. <u>Standard Features:</u> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4/12 rated Enclosure for Indoor/Outdoor Applications, Main Magnetic Disconnect Switch with Shunt Trip Feature, 3-Pole Contactors, and Sub-Circuit Fusing. <u>Optional Features:</u> Process Controller, Hi-Limit Controller(s), Stepper, SCR Trim Load, Ground Fault Monitor, Multi-meter (Amps & Volts) with Phase Selector Switch, Floor Stand Kit, Enclosure Heater and Type "Z" Purge Pressurization System.							
Code	Circuits	Current @ 40°C (104°F) Ambient (with no Solar Load <sup>3</sup> )			Enclosure Size, HxWxD, In (cm)	Base Price	
		Max. Amps/Ckt	Total Amps	Fuse Amps/Ckt <sup>2</sup>			
124	1	24	24	30	24 x 24 x 10 (61 x 61 x 25)	2,770.00	
148	1	48	48	60	24 x 24 x 10 (61 x 61 x 25)	3,000.00	
180	1	80	80	100	24 x 24 x 10 (61 x 61 x 25)	3,240.00	
196	1	96	96	120	24 x 24 x 10 (61 x 61 x 25)	3,470.00	
224	2	24	48	30	36 x 30 x 10 (91 x 76 x 25)	3,990.00	
248	2	48	96	60	36 x 30 x 10 (91 x 76 x 25)	4,350.00	
280	2	80	160	100	36 x 30 x 10 (91 x 76 x 25)	4,690.00	
296	2	96	192	120	48 x 36 x 10 (122 x 91 x 25)	6,340.00	
324	3	24	72	30	48 x 36 x 10 (122 x 91 x 25)	6,590.00	
348	3	48	144	60	48 x 36 x 10 (122 x 91 x 25)	6,920.00	
380	3	80	240	100	48 x 36 x 10 (122 x 91 x 25)	7,290.00	
396	3	96	288	120	48 x 36 x 10 (122 x 91 x 25)	8,350.00	
424	4	24	96	30	48 x 36 x 10 (122 x 91 x 25)	7,170.00	
448	4	48	192	60	48 x 36 x 10 (122 x 91 x 25)	8,150.00	
480	4	80	320	100	48 x 36 x 10 (122 x 91 x 25)	8,500.00	
496	4	96	384	120	48 x 36 x 10 (122 x 91 x 25)	9,600.00	
524	5	24	120	30	48 x 36 x 10 (122 x 91 x 25)	7,810.00	
548	5	48	240	60	48 x 36 x 10 (122 x 91 x 25)	8,950.00	
580	5	80	400	100	48 x 36 x 10 (122 x 91 x 25)	Consult Factory*	
596	5	96	480	120	60 x 36 x 10 (152 x 91 x 25)	Consult Factory*	
624	6	24	144	30	48 x 36 x 10 (122 x 91 x 25)	8,400.00	
648	6	48	288	60	48 x 36 x 10 (122 x 91 x 25)	9,510.00	
680	6	80	480	100	60 x 36 x 10 (152 x 91 x 25)	Consult Factory*	
696	6	96	576	120	60 x 36 x 10 (152 x 91 x 25)	Consult Factory*	

  

Code	Voltage	Adder
1	208 Vac	nc
2	240 Vac	nc
3	380 Vac	nc
4	415 Vac	nc
5	480 Vac	nc

  

Code	Process Controller Options	Adder
0	Customer Supplied Signal (Dry Contact or Solid State Switch, 120 Vac)	nc
1	4040-TRA100 1/4 DIN TRIAC, Relay, Retransmit, RS485 Controller	590.00
2	Customer Supplied Signal to Stepper (4 - 20 mA).	1,150.00
3	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 Controller & Stepper	1,730.00
4	Customer Supplied Digital Signal for Stepper and One 24 or 48 Amp SCR Trim Load	2,020.00
5	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 24 or 48 Amp SCR Trim Load	2,250.00
6	Customer Supplied Digital Signal for Stepper and One 80 or 96 Amp SCR Trim Load	2,500.00
7	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 80 or 96 Amp SCR Trim Load	2,660.00

  

Code	Overtemperature Controller Options	Adder
0	None	nc
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	490.00
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	980.00
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay	1,470.00
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	590.00
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	1,175.00
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485	1,765.00

  

Code	Ground Fault Sensing/Interrupt, Cabinet Heater and "Z" Purge Pressurization Option	Adder
0	None	nc
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch**	1,095.00
2	Cabinet Heater	565.00
3	"Z" Purge Pressurization System	3,910.00
4	Ground Fault Monitor & Cabinet Heater	1,660.00
5	Ground Fault Monitor and "Z" Purge System	5,005.00
6	Ground Fault Monitor, Cabinet Heater and "Z" Purge System	5,570.00
7	Cabinet Heater and "Z" Purge System	4,475.00

  

Code	Options	Adder
0	None	nc
1	Multimeter (Volts & Current)	1,960.00

  

4432 -	624	5	3	1	0	0	Typical Model Number (4432-62453100)
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**Technical Notes:**  
 Load Fuse Current Rating Reflects 125% of Actual Load Amps.

\*External cooling required.  
 \*\*Ground Fault detection requires grounded supply.

4436 Series Power Contactor Panel

Model							
4436	Three Phase Contactor Power Control Panel with Optional SCR Trim Load Control						
Panel Configuration							
UL / cUL Listed 3-Phase Contactor Power Control Panel rated up to 576 total Amps at 208 - 480 Vac, from 1 to 6 circuits. <u>Standard Features:</u> Factory pre-wired for quick installation, Step-down Transformer with Primary & Secondary Fusing for 120 volt Control Circuit, NEMA 4X rated 304 Stainless Steel Enclosure for Indoor/Outdoor Applications, Main Magnetic Disconnect Switch with Shunt Trip Feature, 3-Pole Contactors and Sub-Circuit Fusing. <u>Optional Features:</u> Process Controller, Hi-Limit Controller(s), Stepper, SCR Trim Load, Ground Fault Monitor, Multi-meter (Amps & Volts) with Phase Selector Switch, Floor Stand Kit, Enclosure Heater, and Type "Z" Purge Pressurization System.							
Code	Circuits	Current @ 40°C (104°F) Ambient (with no Solar Load <sup>3</sup> )			Enclosure Size, HxWxD, In (cm)	Base Price	
		Max. Amps/Ckt	Total Amps	Fuse Amps/Ckt <sup>2</sup>			
124	1	24	24	30	24 x 24 x 12 (61 x 61 x 30)	4,520.00	
148	1	48	48	60	24 x 24 x 12 (61 x 61 x 30)	4,640.00	
180	1	80	80	100	24 x 24 x 12 (61 x 61 x 30)	4,930.00	
196	1	96	96	120	24 x 24 x 12 (61 x 61 x 30)	5,280.00	
224	2	24	48	30	36 x 30 x 12 (91 x 76 x 30)	6,160.00	
248	2	48	96	60	36 x 30 x 12 (91 x 76 x 30)	6,540.00	
280	2	80	160	100	36 x 30 x 12 (91 x 76 x 30)	6,810.00	
296	2	96	192	120	48 x 36 x 12 (122 x 91 x 30)	8,650.00	
324	3	24	72	30	48 x 36 x 12 (122 x 91 x 30)	9,000.00	
348	3	48	144	60	48 x 36 x 12 (122 x 91 x 30)	9,600.00	
380	3	80	240	100	48 x 36 x 12 (122 x 91 x 30)	10,225.00	
396	3	96	288	120	48 x 36 x 12 (122 x 91 x 30)	11,475.00	
424	4	24	96	30	48 x 36 x 12 (122 x 91 x 30)	9,875.00	
448	4	48	192	60	48 x 36 x 12 (122 x 91 x 30)	10,525.00	
480	4	80	320	100	48 x 36 x 12 (122 x 91 x 30)	10,825.00	
496	4	96	384	120	48 x 36 x 12 (122 x 91 x 30)	12,050.00	
524	5	24	120	30	48 x 36 x 12 (122 x 91 x 30)	10,525.00	
548	5	48	240	60	48 x 36 x 12 (122 x 91 x 30)	11,075.00	
580	5	80	400	100	48 x 36 x 12 (122 x 91 x 30)	Consult Factory*	
596	5	96	480	120	60 x 36 x 12 (152 x 91 x 30)	Consult Factory*	
624	6	24	144	30	48 x 36 x 12 (122 x 91 x 30)	11,725.00	
648	6	48	288	60	48 x 36 x 12 (122 x 91 x 30)	12,325.00	
680	6	80	480	100	60 x 36 x 12 (152 x 91 x 30)	Consult Factory*	
696	6	96	576	120	60 x 36 x 12 (152 x 91 x 30)	Consult Factory*	
Code	Voltage					Adder	
1	208 Vac					nc	
2	240 Vac					nc	
3	380 Vac					nc	
4	415 Vac					nc	
5	480 Vac					nc	
Code	Process Controller Options					Adder	
0	Customer Supplied Signal (Dry Contact or Solid State Relay, 120 Vac)					nc	
1	4040-TRA100 1/4 DIN TRIAC, Relay, Retransmit, RS485 Controller					590.00	
2	Customer Supplied Signal to Stepper (4 - 20 mA).					1,150.00	
3	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 Controller & Stepper					1,730.00	
4	Customer Supplied Digital Signal for Stepper and One 24 or 48 Amp SCR Trim Load					2,020.00	
5	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 24 or 48 Amp SCR Trim Load					2,250.00	
6	Customer Supplied Digital Signal for Stepper and One 80 or 96 Amp SCR Trim Load					2,500.00	
7	4040-SRA100 1/4 DIN SSR, Relay, Retransmit, RS485 & Stepper & One 80 or 96 Amp SCR Trim Load					2,660.00	
Code	Overtemperature Controller Options					Adder	
0	None					nc	
1	One 4050-1R000 1/4 DIN Fixed 5A Relay, Relay					490.00	
2	Two 4050-1R000 1/4 DIN Fixed 5A Relay, Relay					980.00	
3	Three 4050-1R000 1/4 DIN Fixed 5A Relay, Relay					1,470.00	
4	One 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485					590.00	
5	Two 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485					1,175.00	
6	Three 4050-1RA10 1/4 DIN Fixed 5A Relay, Relay, Retransmit, RS485					1,765.00	
Code	Ground Fault Sensing/Interrupt, Cabinet Heater, and "Z" Purge Pressurization Option					Adder	
0	None					nc	
1	Ground Fault Monitor & Shutdown includes Illuminated Reset Switch**					1,095.00	
2	Cabinet Heater					565.00	
3	"Z" Purge Pressurization System					3,910.00	
4	Ground Fault Monitor & Cabinet Heater					1,660.00	
5	Ground Fault Monitor and "Z" Purge System					5,005.00	
6	Ground Fault Monitor, Cabinet Heater and "Z" Purge System					5,570.00	
7	Cabinet Heater and "Z" Purge System					4,475.00	
Code	Options					Adder	
0	None					nc	
1	Multimeter (Volts & Current)					1,960.00	
4436 -	624	5	3	1	0	0	Typical Model Number (4436-62453100)

**Technical Notes:**  
 Load Fuse Current Rating Reflects 125% of Actual Load Amps.  
 \*External cooling required.  
 \*\*Ground Fault detection requires grounded supply.

## ITC1 & ITC2 Heat Trace Controller

Line and/or Ambient Sensing Heat Trace Controller - 1 & 2 Circuits

UL/cUL Listed - Ordinary Areas and Class I, Division 2

Model	Product Description												
ITC	<p>The Chromalox ITC series IntelliTRACE Controller will control 1 or 2 circuits and is designed for industrial Heat Trace Line and/or Ambient Sensing applications in Non-Hazardous or Hazardous (Class I, Division 2) areas. The ITC is a wall mounted device that operates at 100 - 277 VAC and rated at 40A per circuit in a -40°F to 104°F (-40°C to 40°C) Ambient. Standard features: NEMA 4X FG enclosure, 3.5" High Resolution TFT Display with integral display heater, front panel capacitive touch switches &amp; LED Indication of Power, Load &amp; Alarm. PID, ON/OFF or Manual SSR power control, with a selectable Soft Start program and accepts up to 2 RTD sensors per circuit for Ambient and/or Line Sensing, min/max, average or redundant sensing options. Other standard features include: 2 x common alarm outputs (1 x AC, 1 x DC), Alarms for Low/High Temperature &amp; Current, GFEP (Ground Fault Equipment Protection) &amp; Sensor Failure, ModBus RTU/RS485 Communications and user selectable manual output on failed sensor. Stainless Steel wall mounting brackets are included.</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Number of Circuits</th> <th style="text-align: right;">Price</th> </tr> </thead> <tbody> <tr> <td>1 -</td> <td>1 Circuit, UL/cUL</td> <td style="text-align: right;">\$1,000.00</td> </tr> <tr> <td>2 -</td> <td>2 Circuits, UL/cUL</td> <td style="text-align: right;">\$1,600.00</td> </tr> </tbody> </table>		Code	Number of Circuits	Price	1 -	1 Circuit, UL/cUL	\$1,000.00	2 -	2 Circuits, UL/cUL	\$1,600.00			
Code	Number of Circuits	Price											
1 -	1 Circuit, UL/cUL	\$1,000.00											
2 -	2 Circuits, UL/cUL	\$1,600.00											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Communications</th> <th style="text-align: right;">Adder</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ModBus RTU/RS485</td> <td style="text-align: right;">n/c</td> </tr> <tr> <td>1</td> <td>ModBus TCP/Ethernet (Pending)</td> <td style="text-align: right;">Pending</td> </tr> <tr> <td>9</td> <td>Other Communications</td> <td style="text-align: right;">Consult Factory</td> </tr> </tbody> </table>		Code	Communications	Adder	0	ModBus RTU/RS485	n/c	1	ModBus TCP/Ethernet (Pending)	Pending	9	Other Communications	Consult Factory
Code	Communications	Adder											
0	ModBus RTU/RS485	n/c											
1	ModBus TCP/Ethernet (Pending)	Pending											
9	Other Communications	Consult Factory											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Enclosure</th> <th style="text-align: left;">Enclosure Size H x W x D, In (cm)</th> <th style="text-align: left;">(Heat sink adds 1-3/4" to depth)</th> <th style="text-align: right;">Adder</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>NEMA 4X Fiberglas</td> <td>10 x 8 x 6 (26 x 21 x 15)</td> <td></td> <td style="text-align: right;">n/c</td> </tr> </tbody> </table>		Code	Enclosure	Enclosure Size H x W x D, In (cm)	(Heat sink adds 1-3/4" to depth)	Adder	0	NEMA 4X Fiberglas	10 x 8 x 6 (26 x 21 x 15)		n/c		
Code	Enclosure	Enclosure Size H x W x D, In (cm)	(Heat sink adds 1-3/4" to depth)	Adder									
0	NEMA 4X Fiberglas	10 x 8 x 6 (26 x 21 x 15)		n/c									
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Code	Add to Complete Model Number	Adder											
0		n/c											
<p>ITC 2 - 0 0 0</p>													

Includes: Wall Mounting Brackets, 1 Set, Stainless Steel, 16 ga, with Mounting holes.

Prices are List, Schedule C discount

In Stock:

Model	PCN
ITC1-000	316101
ITC2-000	316110

## IntelliTRACE™ Single Loop Line Sensing Heat Trace Panel

Model			
HTLS	<b>IntelliTRACE 1000 Series Line / Ambient Sensing Heat Trace Panel</b>		
	<b>Panel Configuration</b>		
	UL and cUL 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.		
	<b>Code</b>	<b>Single Loop of Heat Trace Control</b>	<b>Base Price</b>
	1	Solid State Relay Control Rated 30 Amps @ 40° C Ambient (NEMA 4)	1,260.00
	1C	Electromechanical Contractor Control Rated 30 Amps @ 40° C Ambient (NEMA 4X)	1,200.00
	<b>Code</b>	<b>Voltage</b>	<b>Adder</b>
		<b>Line Voltage (Single Phase)</b>	<b>Load Voltage (Single Phase)</b>
	0	120 Vac	120 Vac
	1	240 Vac	240 Vac
	2	277 Vac	277 Vac (240 Vac Cable)
	3	208 Vac	208 Vac (240 Vac Cable)
	4	480 Vac	480 Vac
			nc
			nc
			80.00
			nc
			80.00
	<b>Code</b>	<b>Controller Options</b>	<b>Adder</b>
	0	IntelliTRACE Controller (Code 1 Solid State Relay)	nc
	1	IntelliTRACE Controller with Communications (Code 1 Solid State Relay)	75.00
	2	IntelliTRACE Controller (Code 1C Contactor Control)	nc
	3	IntelliTRACE Controller with Communications (Code 1C Contactor Control)	75.00
	<b>Code</b>	<b>Ground Fault Monitoring Options*</b>	<b>Adder</b>
	0	None	nc
	1	Ground Fault Monitor 120 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	630.00
	2	Ground Fault Monitor 240 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	630.00
	3	Ground Fault Monitor 120 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	630.00
	4	Ground Fault Monitor 208 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	630.00
	5	15 Amp, 120 Vac, 1-Pole GFI Circuit Breaker	245.00
	6	20 Amp, 120 Vac, 1-Pole GFI Circuit Breaker	245.00
	7	25 Amp, 120 Vac, 1-Pole GFI Circuit Breaker	245.00
	8	30 Amp, 120 Vac, 1-Pole GFI Circuit Breaker	245.00
	A	15 Amp, 277 Vac, 1-Pole GFI Circuit Breaker	545.00
	B	20 Amp, 277 Vac, 1-Pole GFI Circuit Breaker	545.00
	C	30 Amp, 277 Vac, 1-Pole GFI Circuit Breaker	545.00
	E	15 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker	365.00
	F	20 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker	365.00
	G	25 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker	365.00
	H	30 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker	365.00
	<b>Code</b>	<b>Enclosure Heater</b>	<b>Adder</b>
	0	None	nc
	1	Thermostat Controlled Enclosure Heater	260.00
HTLS -	1	1	0
	2	0	0
	Typical Model Number (HTLS-11020)		

\*Ground Fault detection requires a grounded supply.

**In Stock**

Model	Description	PCN	List Price
HTLS-10000	Single Loop	329666	1,260.00
HTLS-10010	Single Loop	329631	1,890.00
HTLS-11020	Single Loop	329643	1,890.00
HTLS-12030	Single Loop	329658	1,970.00

## IntelliTRACE™ Dual Loop Line Sensing Heat Trace Panel

Model			
HTLS	IntelliTRACE 2000 Series Line / Ambient Sensing Heat Trace Panel		
<b>Panel Configuration</b>			
UL and cUL Listed Dual Loop Line / Ambient Sensing Temperature / Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Solid State Relays or Contactor Control, Current Transformers, High-Low Temperature Alarms, Low Current Alarms, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Displays, Terminal Blocks for Field Connections, Loop Enable / Disable, NEMA 4/4X rated Enclosure (16"H x 14"W x 8"D) for Indoor / Outdoor Applications. Options Include: Ground Fault Monitoring and Selectable Shutdown, GFI Thermal Magnetic Circuit Breakers, Enclosure Heater, and RS-485 MODBUS Communications.			
<b>Code</b>	<b>Dual Loop Heat Trace Control</b>	<b>Base Price</b>	
2	Solid State Relay Control Rated 30 Amps per Loop @ 40° C Ambient (NEMA 4)	1,860.00	
2C	Electromechanical Contactor Control per Loop Rated 30 Amps per Loop @ 40° C Ambient (NEMA 4X)	1,750.00	
		<b>Code</b>	<b>Adder</b>
		<b>Voltage</b>	
		<b>Line Voltage (Single Phase)</b>	<b>Load Voltage (Single Phase)</b>
0	120 Vac	120 Vac	nc
1	240 Vac	240 Vac	nc
2	277 Vac	277 Vac (240 Vac Cable)	80.00
3	208 Vac	208 Vac (240 Vac Cable)	nc
4	480 Vac	480 Vac	80.00
		<b>Code</b>	<b>Adder</b>
		<b>Controller</b>	
0	IntelliTRACE Controllers (Code 2 Solid State Relay)	nc	
1	IntelliTRACE Controllers with Communications (Code 2 Solid State Relay)	160.00	
2	IntelliTRACE Controllers (Code 2C Solid Contactor Control)	nc	
3	IntelliTRACE Controllers with Communications (Code 2C Contactor Control)	160.00	
		<b>Code</b>	<b>Adder</b>
		<b>Ground Fault Monitoring Options*</b>	
0	None	nc	
1	Ground Fault Monitor 120 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	1,255.00	
2	Ground Fault Monitor 240 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	1,255.00	
3	Ground Fault Monitor 277 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	1,255.00	
4	Ground Fault Monitor 208 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	1,255.00	
5	15 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	485.00	
6	20 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	485.00	
7	25 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	485.00	
8	30 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	485.00	
A	15 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	1,085.00	
B	20 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	1,085.00	
C	30 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	1,085.00	
E	15 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	725.00	
F	20 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	725.00	
G	25 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	725.00	
H	30 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	725.00	
		<b>Code</b>	<b>Adder</b>
		<b>Cabinet Heater</b>	
0	None	nc	
1	Thermostat Controlled Enclosure Heater	260.00	
HTLS -	2	0	0
		0	0
Typical Model Number (HTLS-20000)			

\*Ground Fault detection requires grounded supply.

**In Stock**

Model	PCN
HTLS-20000	329674

## IntelliTRACE™ Three Loop Line Sensing Heat Trace Panel

Model	
HTLS	<b>IntelliTRACE 3000 Series Line Sensing Heat Trace Panel</b>
<b>Panel Configuration</b>	
UL and cUL Listed Three Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Three-Pole Door-Interlocked Disconnect Switch, Solid State Relay or Contactor Control, High or Low Temperature Alarm, Low Current Alarms, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Display, Terminal Blocks for Field Connections, Loop Standby Mode, NEMA 4 Steel Enclosure (20"H x 20"W x 8"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring and Selectable Shutdown, GFI Thermal Magnetic Circuit Breakers, Enclosure Heater and RS-485 MODBUS™ Communications.	
<b>Code</b>	<b>Three Loop of Heat Trace Control</b>
3	Solid State Relay Control Rated 30 Amps per Loop @ 40° C Ambient
3C	Electromechanical Contactor Control per Loop Rated 30 Amps Inductive per Loop @ 40° C Ambient
<b>Code</b>	<b>Base Price</b>
0	5,040.00
1	4,500.00
<b>Code</b>	<b>Voltage</b>
<b>Line Voltage (Three Phase)</b>	<b>Load Voltage</b>
0	208/120 Vac, 3 Phase, 4 Wire 120 Vac
1	240 Vac, 3 Phase 240 Vac
2	480/277 Vac, 3 Phase, 4 Wire 277 Vac (240 Vac Cable)
3	208/120 Vac, 3 Phase, 4 Wire 208 Vac (240 Vac Cable)
<b>Code</b>	<b>Controller</b>
0	IntelliTRACE Controllers (Code 3 Solid State Relay)
1	IntelliTRACE Controllers with Communications (Code 3 Solid State Relay)
2	IntelliTRACE Controllers (Code 3C Solid Contactor Control)
3	IntelliTRACE Controllers with Communications (Code 3C Contactor Control)
<b>Code</b>	<b>Ground Fault Monitoring Options*</b>
0	None
1	Ground Fault Monitor 120 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch
2	Ground Fault Monitor 240 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch
3	Ground Fault Monitor 277 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch
4	Ground Fault Monitor 208 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch
5	15 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)
6	20 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)
7	25 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)
8	30 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)
A	15 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)
B	20 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)
C	30 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)
E	15 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)
F	20 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)
G	25 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)
H	30 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)
<b>Code</b>	<b>Enclosure Heater</b>
0	None
1	Thermostat Controlled Enclosure Heater
<b>Code</b>	<b>Adder</b>
0	nc
1	260.00
HTLS -	3 1 0 2 0 Typical Model Number (HTLS-31020)

\* Ground Fault Detection requires grounded supply.

## IntelliTRACE™ Four Loop Line Sensing Heat Trace Panel

Model																		
HTLS	<b>IntelliTRACE 4000 Series Line Sensing Heat Trace Panel</b>																	
	<b>Panel Configuration</b>																	
	UL and cUL Listed Four Loop Line Sensing Temperature/Monitor Heat Trace Panel. Factory pre-wired for quick installation. Includes: Three-Pole Door-Interlocked Disconnect Switch, Solid State Relay or Contactor Control, High or Low Temperature Alarm, Low Current Alarms, On/Off or PID Control, Universal Sensor Inputs, Dual Digital Display, Terminal Blocks for Field Connections, Loop Standby Mode, NEMA 4 Steel Enclosure (30"H x 24"W x 8"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring or Selectable Shutdown, GFI Thermal Magnetic Circuit Breakers, Enclosure Heater and RS-485 MODBUS Communications.																	
	<b>Code</b>	<b>Four Loop of Heat Trace Control</b>	<b>Base Price</b>															
	4	Solid State Relay Control Rated 30 Amps per Loop @ 40° C Ambient	6,350.00															
	4C	Electromechanical Contactor Control per Loop Rated 30 Amps Inductive per Loop @ 40° C Ambient	5,670.00															
	<b>Code</b>	<b>Voltage</b>	<b>Adder</b>															
		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Line Voltage (Three Phase)</th> <th style="text-align: left;">Load Voltage</th> <th style="text-align: right;">Adder</th> </tr> </thead> <tbody> <tr> <td>0 208/120 Vac, 3 Phase, 4 Wire</td> <td>120 Vac</td> <td style="text-align: right;">nc</td> </tr> <tr> <td>1 240 Vac, 3 Phase</td> <td>240 Vac</td> <td style="text-align: right;">nc</td> </tr> <tr> <td>2 480/277 Vac, 3 Phase, 4 Wire</td> <td>277 Vac (240 Vac Cable)</td> <td style="text-align: right;">80.00</td> </tr> <tr> <td>3 208/120 Vac, 3 Phase, 4 Wire</td> <td>208 Vac (240 Vac Cable)</td> <td style="text-align: right;">nc</td> </tr> </tbody> </table>	Line Voltage (Three Phase)	Load Voltage	Adder	0 208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc	1 240 Vac, 3 Phase	240 Vac	nc	2 480/277 Vac, 3 Phase, 4 Wire	277 Vac (240 Vac Cable)	80.00	3 208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc	
Line Voltage (Three Phase)	Load Voltage	Adder																
0 208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc																
1 240 Vac, 3 Phase	240 Vac	nc																
2 480/277 Vac, 3 Phase, 4 Wire	277 Vac (240 Vac Cable)	80.00																
3 208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc																
	<b>Code</b>	<b>Controller</b>	<b>Adder</b>															
	0	IntelliTRACE Controllers (Code 4 Solid State Relay)	nc															
	1	IntelliTRACE Controllers with Communications (Code 4 Solid State Relay)	305.00															
	2	IntelliTRACE Controllers (Code 4C Solid Contactor Control)	nc															
	3	IntelliTRACE Controllers with Communications (Code 4C Contactor Control)	305.00															
	<b>Code</b>	<b>Ground Fault Monitoring Options*</b>	<b>Adder</b>															
	0	None	nc															
	1	Ground Fault Monitor 120 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	2,510.00															
	2	Ground Fault Monitor 240 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	2,510.00															
	3	Ground Fault Monitor 277 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	2,510.00															
	4	Ground Fault Monitor 208 Vac w/Shutdown Contactor & door mounted GFI Illuminated Reset Switch	2,510.00															
	5	15 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	960.00															
	6	20 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	960.00															
	7	25 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	960.00															
	8	30 Amp, 120 Vac, 1-Pole GFI Circuit Breaker (1/loop)	960.00															
	A	15 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	2,165.00															
	B	20 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	2,165.00															
	C	30 Amp, 277 Vac, 1-Pole GFI Circuit Breaker (1/loop)	2,165.00															
	E	15 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	1,440.00															
	F	20 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	1,440.00															
	G	25 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	1,440.00															
	H	30 Amp, 208/240 Vac, 2-Pole GFI Circuit Breaker (1/loop)	1,440.00															
	<b>Code</b>	<b>Enclosure Heater</b>	<b>Adder</b>															
	0	None	nc															
	1	Thermostat Controlled Enclosure Heater	260.00															
HTLS -	4	1	0															
		E	0															
	Typical Model Number (HTLS-410E0)																	

\*Ground Fault detection requires grounded supply.

## IntelliTRACE™ Single Loop Panel for Class 1 Division 2

**Model**

HTLSC1D2 IntelliTRACE 10000 Series Single Loop Line Sensing Heat Trace Panel

**Panel Configuration**

UL, cUL and CE 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, Remote Interlock, NEMA 4 rated Enclosure (16"H x 14"W x 8"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring, Digital Communications and Enclosure Heater.

Code	Single Loop Heat Trace Control	Base Price
1	30 Amp Rating	1,555.00
<hr/>		
<b>Code</b>	<b>Voltage</b>	<b>Adder</b>
<hr/>		
	<b>Line Voltage (Single Phase)</b>	<b>Load Voltage</b>
0	120 Vac	120 Vac <span style="float: right;">nc</span>
1	208 Vac	208 Vac (240 Vac Cable) <span style="float: right;">125.00</span>
2	240 Vac	240 Vac <span style="float: right;">125.00</span>
3	277 Vac	277 Vac (240 Vac Cable) <span style="float: right;">125.00</span>
4	480 Vac	480 Vac <span style="float: right;">125.00</span>
<hr/>		
<b>Code</b>	<b>Controller</b>	<b>Adder</b>
<hr/>		
0	IntelliTRACE Controllers	nc
1	IntelliTRACE Controllers with Communications	75.00
<hr/>		
<b>Code</b>	<b>Ground Fault Monitoring*</b>	<b>Adder</b>
<hr/>		
0	None	nc
1	Ground Fault Module (Includes Illuminated Reset Switch)	605.00
<hr/>		
<b>Code</b>	<b>Enclosure Heater</b>	<b>Adder</b>
<hr/>		
0	None	nc
1	Thermostat Controlled Enclosure Heater	260.00

HTLSC1D2 - 1 0 0 0 0 Typical Model Number (HTLSC1D2-10000)

\*Ground Fault detection requires grounded supply.

## IntelliTRACE™ Dual Loop Panel for Class 1 Division 2

Model	
HTLSC1D2	<b>IntelliTRACE 20000 Series Dual Loop Line Sensing Heat Trace Panel</b>
<b>Panel Configuration</b>	
UL, cUL and CE Listed Dual Loop Line/Ambient 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, Remote Interlock, NEMA 4X rated Enclosure (18"H x 16"W x 10"D) for Indoor/Outdoor Applications. Options Include: Ground Fault Monitoring, Digital Communications and Enclosure Heater.	
Code	Dual Loop Heat Trace Control
2	30 Amp Rating
2,870.00	
Code	Voltage
<b>Line Voltage (Single Phase)</b>	
0	120 Vac
1	208 Vac
2	240 Vac
3	277 Vac
4	480 Vac
<b>Load Voltage</b>	
0	120 Vac
1	208 Vac (240 Vac Cable)
2	240 Vac
3	277 Vac (240 Vac Cable)
4	480 Vac
nc	
245.00	
245.00	
245.00	
245.00	
245.00	
Code	Controller
0	IntelliTRACE Controllers
1	IntelliTRACE Controllers with Communications
nc	
150.00	
Code	Ground Fault Monitoring
0	None
1	Ground Fault Modules (Includes Illuminated Reset Switch)*
nc	
1,200.00	
Code	Enclosure Heater
0	None
1	Thermostat Controlled Enclosure Heater
nc	
260.00	
HTLSC1D2 -	2 0 0 0 0 0
Typical Model Number (HTLSC1D2-20000)	

\*Ground Fault detection requires grounded supply.

**ITAS - IntelliTRACE™ Multiloop Heat Tracing Control Panel – Ambient Sensing**

**Model** ITAS **Product Description** ITAS series Intelligent Ambient Sensing Heat Trace Panel. Designed for Industrial applications in Non-Hazardous Areas. ITAS 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 (40°C) 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, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater, Remote Monitoring Capability, Wireless Ethernet Communications, CE Third Party Compliance

Code	Circuits	----- NEMA 4 Enclosure Size (HxWxD) In (cm) -----		Panel Board Size	Panel Board Main Bus Rating	Base Price
		1 Pole	2 Pole			
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	N/A	N/A	13,100.00
12	12 Circuits	36 x 30 x 12 (92 x 76 x 31)	-----	18 position	up to 100 A	17,025.00
12	12 Circuits	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	30 position	up to 400 A	17,600.00
18	18 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	21,925.00
18	18 Circuits	-----	60 x 36 x 12 (152 x 92 x 31)	42 position	up to 600 A	22,075.00
24	24 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	24,100.00
24	24 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	30 position (X2)	up to 400 A	27,100.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	30 position	up to 600 A	29,000.00
30	30 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	32,000.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	42 position	up to 600 A	34,000.00
36	36 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	36,900.00

Code	Line Voltage	Cable Voltage	Circuit Breaker Rating - Type (1 /Loop)	Adder
1	208/120 VAC, 3 Phase 4 Wire	120 VAC	120 V-1 Pole	nc
2	208/120 VAC, 3 Phase 4 Wire	208 VAC	208/240V-2 Pole	nc
3	240/120 VAC, Single Phase 3 Wire	240 VAC	208/240V-2 Pole	nc
4	480/277 VAC, 3 Phase 4 Wire	277 VAC	277V-1 Pole	645.00
5	480/277 VAC, 3 Phase 4 Wire	480 VAC	480V-2 Pole	645.00
6	240/120 VAC, Single Phase 3 Wire	120 VAC	120 V-1 Pole	nc

Code	Cable Load Circuit Breaker Rating	(Multiply the Number of Circuits by the Circuit Breaker Price)				Adder / Ckt
	Rating	..... Individual Circuit Breaker Price.....				Total Breaker Price
		120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole	
1	15A Thermal Magnetic	\$13	\$25	\$65	\$225	Multiply the number of Circuits
2	20A Thermal Magnetic	\$13	\$25	\$65	\$225	by the Circuit Breaker Price.
3	30A Thermal Magnetic	\$13	\$25	\$65	\$225	See <b>Cable Load Circuit</b>
4	40A Thermal Magnetic	\$13	\$25	\$65	\$225	<b>Total - Adder Chart</b>
5	50A Thermal Magnetic	\$13	\$25	\$65	\$225	Below

Code	Main Disconnects	Adder	Code	Main Circuit Breaker	Adder
0	None	nc	A	100A Thermal Magnetic	480.00
1	100A Disconnect	455.00	B	150A Thermal Magnetic	1,040.00
2	150A Disconnect	840.00	C	225A Thermal Magnetic	1,190.00
3	250A Disconnect	1,130.00	D	250A Thermal Magnetic	1,320.00
4	400A Disconnect	1,410.00	E	400A Thermal Magnetic	1,470.00
5	600A Disconnect	1,960.00	F	600A Thermal Magnetic	2,930.00

**See Technical Note #2 Below!**

Code	Enclosure	Adder
1	NEMA 4 Single-Door Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 24 x 24 x 12 In, (61 x 61 x 31) (cm)	830.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 36 x 30 x 12 In, (92 x 76 x 31) (cm)	1,320.00
4	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 48 x 36 x 12 In, (122 x 92 x 31) (cm)	1,600.00
5	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 60 x 36 x 12 In, (152 x 92 x 31) (cm)	1,800.00
6	NEMA 4X 304 Stainless Steel Floor-Mount Enclosure: 62 x 60 x 12 In, (157 x 152 x 31) (cm)	6,160.00

Code	Enclosure Heater	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F, -18°C Ambient)	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F / °C Ambient)	840.00

Code	Input Options	Adder
	Inputs/Ckt	Sensor Mapping
0	Standard Sensor Input	nc
1	Dry Contact Closure From Ambient Sensing Thermostat	400.00
2	Remote Snow Sensor Input (i.e. SIT, GIT & CIT type sensors)	2,400.00
9	Special Configuration	Consult Sales

Code	Communications	Adder
0	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet	nc
1	ModBus TCP/Wireless	1,675.00
9	Other	Consult Sales

Code	Monitoring	Adder
0	Standard Monitoring (Local HMI Only)	nc
1	Remote Desktop (Wired/Wireless Ethernet Only)	110.00
9	Other	Consult Sales

ITAS - 24 1 3 3 - 1 1 1 0 0 Typical Model Number

\*42 - 72 circuit service via ITAS-EXT Extension Panel. See ITAS-EXT heat Tracing Extension Panel - Ambient Sensing Order Table.

**Spare / Replacement Parts List:**

<u>Part Number</u>	<u>Item Description</u>	<u>Price, Each</u>
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
0135-30490	ITAS-Digital Control 10" (250mm) Display, programmed	7,390.00
0017-42931	15A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43355	20A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43356	30A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43427	40A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43428	50A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43373	15A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43374	20A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43345	30A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43375	40A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43429	50A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43013	15A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42912	20A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42913	30A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-43349	40A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42966	50A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42970	15A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43000	20A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-42928	30A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43430	40A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43431	50A 2P Thermal Mag Circuit Breaker (480V)	285.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

<u>Base Panel</u>	<u>Model Number Instructions</u>	<u>Price, Each</u>
ITAS-06	Add -CEXX suffix to Model Number	1,350.00
ITAS-12	Add -CEXX suffix to Model Number	1,700.00
ITAS-18	Add -CEXX suffix to Model Number	2,275.00
ITAS-24	Add -CEXX suffix to Model Number	2,825.00
ITAS-30	Add -CEXX suffix to Model Number	3,100.00
ITAS-36	Add -CEXX suffix to Model Number	3,350.00

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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:**

- 120-264V customer supplied instrument power supply
- Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- Do Not Exceed 80% of Panelboard Rating
- See ITAS-EXT Extension Panel Order Table to increase total circuits

Cable Load Circuit Breaker - Total Adder				
CKTS	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole
06	\$78	\$150	\$390	\$1,350
12	\$156	\$300	\$780	\$2,700
18	\$234	\$450	\$1,170	\$4,050
24	\$312	\$600	\$1,560	\$5,400
30	\$390	\$750	\$1,950	\$6,750
36	\$468	\$900	\$2,340	\$8,100

## ITAS-EXT - IntelliTRACE™ Multiloop Heat Tracing Extension Panel – Ambient Sensing

Model	Product Description
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ITAS-EXT ITAS-EXT series Intelligent Ambient Sensing Heat Trace Extension Panel. Designed for Industrial applications in Non-Hazardous Areas. Intended To Be Used With ITAS Heat Trace Ambient Sensing Panel to increase circuit service. ITAS series offers the following standard features: NEMA 4 enclosure, PID SCR Power Controller Rated at 40A Per Circuit at 104°F (40°C) Ambient, Six to Thirty-Six Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, CE Third Party Compliance

Code	Circuits	----- NEMA 4 Enclosure Size (HxWxD) In (cm) -----		Panel Board Size	Panel Board Main Bus Rating	Base Price
		1 Pole	2 Pole			
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	N/A	N/A	7,525.00
12	12 Circuits	36 x 30 x 12 (92 x 76 x 31)	-----	18 position	up to 100 A	10,800.00
12	12 Circuits	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	30 position	up to 400 A	11,275.00
18	18 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	15,525.00
18	18 Circuits	-----	60 x 36 x 12 (152 x 92 x 31)	42 position	up to 600 A	15,575.00
24	24 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	17,500.00
24	24 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	30 position (X2)	up to 400 A	20,275.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	30 position	up to 600 A	22,025.00
30	30 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	25,000.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	42 position	up to 600 A	26,375.00
36	36 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	29,275.00

Code	Line Voltage	Cable Voltage	Circuit Breaker Rating - Type (1 /Loop)	Adder
1	208/120 VAC, 3 Phase 4 Wire	120 VAC	120 V-1 Pole	nc
2	208/120 VAC, 3 Phase 4 Wire	208 VAC	208/240V-2 Pole	nc
3	240/120 VAC, Single Phase 3 Wire	240 VAC	208/240V-2 Pole	nc
4	480/277 VAC, 3 Phase 4 Wire	277 VAC	277V-1 Pole	645.00
5	480/277 VAC, 3 Phase 4 Wire	480 VAC	480V-2 Pole	645.00
6	240/120 VAC, Single Phase 3 Wire	120 VAC	120 V-1 Pole	nc

Code	Cable Load Circuit Breaker Rating	(Multiply the Number of Circuits by the Circuit Breaker Price)	Adder / Ckt
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..... Individual Circuit Breaker Price. ....					
Rating	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole	Total Breaker Price
1	15A Thermal Magnetic	\$13	\$25	\$65	\$225
2	20A Thermal Magnetic	\$13	\$25	\$65	\$225
3	30A Thermal Magnetic	\$13	\$25	\$65	\$225
4	40A Thermal Magnetic	\$13	\$25	\$65	\$225
5	50A Thermal Magnetic	\$13	\$25	\$65	\$225

Multiply the number of Circuits by the Circuit Breaker Price. See **Cable Load Circuit Total - Adder** Chart Below

Code	Main Disconnects	Adder	Code	Main Circuit Breaker	Adder
0	None	nc	A	100A Thermal Magnetic	480.00
1	100A Disconnect	455.00	B	150A Thermal Magnetic	1,040.00
2	150A Disconnect	840.00	C	225A Thermal Magnetic	1,190.00
3	250A Disconnect	1,130.00	D	250A Thermal Magnetic	1,320.00
4	400A Disconnect	1,410.00	E	400A Thermal Magnetic	1,470.00
5	600A Disconnect	1,960.00	F	600A Thermal Magnetic	2,930.00

**See  
Technical  
Note #2  
Below!**

Code	Enclosure	Adder
1	NEMA 4 Single-Door Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 24 x 24 x 12 In, (61 x 61 x 31) (cm)	830.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 36 x 30 x 12 In, (92 x 76 x 31) (cm)	1,320.00
4	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 48 x 36 x 12 In, (122 x 92 x 31) (cm)	1,600.00
5	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 60 x 36 x 12 In, (152 x 92 x 31) (cm)	1,800.00
6	NEMA 4X 304 Stainless Steel Floor-Mount Enclosure: 62 x 60 x 12 In, (157 x 152 x 31) (cm)	6,160.00

Code	Enclosure Heater	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F, -18°C Ambient)	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F / °C Ambient)	840.00

ITAS-EXT-	24	1	3	1	-	1	0	Typical Model Number
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\*Designed to be paired with an ITAS Panel

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
0017-42931	15A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43355	20A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43356	30A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43427	40A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43428	50A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43373	15A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43374	20A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43345	30A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43375	40A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43429	50A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43013	15A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42912	20A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42913	30A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-43349	40A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42966	50A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42970	15A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43000	20A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-42928	30A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43430	40A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43431	50A 2P Thermal Mag Circuit Breaker (480V)	285.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITAS-EXT-06	Add -CEXX suffix to Model Number	1,350.00
ITAS-EXT-12	Add -CEXX suffix to Model Number	1,700.00
ITAS-EXT-18	Add -CEXX suffix to Model Number	2,275.00
ITAS-EXT-24	Add -CEXX suffix to Model Number	2,825.00
ITAS-EXT-30	Add -CEXX suffix to Model Number	3,100.00
ITAS-EXT-36	Add -CEXX suffix to Model Number	3,350.00

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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. Do Not Exceed 80% of Panelboard Rating
3. Do Not Exceed 80% of Panelboard Rating
4. These Extension Panels are to be paired with an ITAS Panel.

Cable Load Circuit Breaker - Total Adder				
CKTS	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole
06	\$78	\$150	\$390	\$1,350
12	\$156	\$300	\$780	\$2,700
18	\$234	\$450	\$1,170	\$4,050
24	\$312	\$600	\$1,560	\$5,400
30	\$390	\$750	\$1,950	\$6,750
36	\$468	\$900	\$2,340	\$8,100

**ITLS - IntelliTRACE™ Multiloop Heat Tracing Control Panel – Line Sensing**

Model	Product Description
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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 (40°C) Ambient, Six to Thirty-Six Circuits (Expandable to Seventy-Two Circuits\*), Common Alarm Output, Hand/Off/Auto Operation, 120 Volt Instrument Power Included, Current Monitoring, 30 mA Ground Fault Equipment Protection, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Customizable I/O Mapping, Wireless Ethernet Communications, CE Third Party Compliance.

Code	Circuits	----- NEMA 4 Enclosure Size (HxWxD) In (cm) -----		Panel Board Size	Panel Board Main Bus Rating	Base Price
		1 Pole	2 Pole			
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	N/A	N/A	13,100.00
12	12 Circuits	36 x 30 x 12 (92 x 76 x 31)	-----	18 position	up to 100 A	17,250.00
12	12 Circuits	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	30 position	up to 400 A	17,800.00
18	18 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	22,250.00
18	18 Circuits	-----	60 x 36 x 12 (152 x 92 x 31)	42 position	up to 600 A	22,450.00
24	24 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	24,550.00
24	24 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	30 position (X2)	up to 400 A	27,625.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	30 position	up to 600 A	29,550.00
30	30 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	32,600.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	42 position	up to 600 A	34,625.00
36	36 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	37,625.00

Code	Line Voltage	Cable Voltage	Circuit Breaker Rating - Type (1 /Loop)	Adder
1	208/120 VAC, 3 Phase 4 Wire	120 VAC	120 V-1 Pole	nc
2	208/120 VAC, 3 Phase 4 Wire	208 VAC	208/240V-2 Pole	nc
3	240/120 VAC, Single Phase 3 Wire	240 VAC	208/240V-2 Pole	nc
4	480/277 VAC, 3 Phase 4 Wire	277 VAC	277V-1 Pole	645.00
5	480/277 VAC, 3 Phase 4 Wire	480 VAC	480V-2 Pole	645.00
6	240/120 VAC, Single Phase 3 Wire	120 VAC	120 V-1 Pole	nc

Code	Cable Load Circuit Breaker Rating	(Multiply the Number of Circuits by the Circuit Breaker Price)	Adder / Ckt
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..... Individual Circuit Breaker Price .....					
Rating	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole	Total Breaker Price
1	15A Thermal Magnetic \$13	\$25	\$65	\$225	Multiply the number of Circuits by the Circuit Breaker Price. See <b>Cable Load Circuit Total - Adder Chart Below</b>
2	20A Thermal Magnetic \$13	\$25	\$65	\$225	
3	30A Thermal Magnetic \$13	\$25	\$65	\$225	
4	40A Thermal Magnetic \$13	\$25	\$65	\$225	
5	50A Thermal Magnetic \$13	\$25	\$65	\$225	

Code	Main Disconnects	Adder	Code	Main Circuit Breaker	Adder
0	None	nc	A	100A Thermal Magnetic	480.00
1	100A Disconnect	455.00	B	150A Thermal Magnetic	1,040.00
2	150A Disconnect	840.00	C	225A Thermal Magnetic	1,180.00
3	250A Disconnect	1,130.00	D	250A Thermal Magnetic	1,320.00
4	400A Disconnect	1,410.00	E	400A Thermal Magnetic	1,460.00
5	600A Disconnect	1,960.00	F	600A Thermal Magnetic	2,930.00

**See Technical Note #2 Below!**

Code	Enclosure	Choose the Size that aligns with the Number of INPUTS PER CIRCUIT	Adder
1	NEMA 4 Single-Door Wall-Mount Steel Enclosure		nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 24 x 24 x 12 In, (61 x 61 x 31) (cm)		830.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 36 x 30 x 12 In, (92 x 76 x 31) (cm)		1,320.00
4	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 48 x 36 x 12 In, (122 x 92 x 31) (cm)		1,600.00
5	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 60 x 36 x 12 In, (152 x 92 x 31) (cm)		1,800.00
6	NEMA 4X 304 Stainless Steel Floor-Mount Enclosure: 62 x 60 x 12 In, (157 x 152 x 31) (cm)		6,160.00

Code	Enclosure Heater	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F, -18°C Ambient)	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F / °C Ambient)	840.00

Code	Inputs per Circuit	I/O Mapping	Adder
0	1	No I/O Mapping	nc
1	1	Full I/O Mapping	670.00
2	2	Full I/O Mapping	<b>See ITLS I/O Mapping: Enclosure Size &amp; Total Adder Chart Below</b>
3	3	Full I/O Mapping	
9	X	Special Configuration	Consult Sales

Code	Communications	Adder
0	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet	nc
1	ModBus TCP/Wireless	1,675.00
9	Other	Consult Sales

Code	Monitoring	Adder
0	Standard Monitoring (Local HMI Only)	nc
1	Remote Desktop (Wired/Wireless Ethernet Only)	110.00
9	Other	Consult Sales

ITLS	-	24	1	3	3	-	1	1	1	0	0	Typical Model Number
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\*42 - 72 circuit service via ITLS-EXT Extension Panel. See ITLS-EXT heat Tracing Extension Panel - Line Sensing Order table.

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
	ITLS-Digital Control 10" (250mm) Display	Consult Factory
0017-42931	15A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43355	20A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43356	30A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43427	40A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43428	50A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43373	15A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43374	20A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43345	30A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43375	40A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43429	50A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43013	15A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42912	20A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42913	30A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-43349	40A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42966	50A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42970	15A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43000	20A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-42928	30A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43430	40A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43431	50A 2P Thermal Mag Circuit Breaker (480V)	285.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITLS-06	Add -CEXX suffix to Model Number	1,350.00
ITLS-12	Add -CEXX suffix to Model Number	1,700.00
ITLS-18	Add -CEXX suffix to Model Number	2,275.00
ITLS-24	Add -CEXX suffix to Model Number	2,825.00
ITLS-30	Add -CEXX suffix to Model Number	3,100.00
ITLS-36	Add -CEXX suffix to Model Number	3,350.00

**ATEX Certification: Consult Sales on all models.**

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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.

**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. See ITLS-EXT Extension Panel Order Table to increase total circuits

CKTS	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole
06	\$78	\$150	\$390	\$1,350
12	\$156	\$300	\$780	\$2,700
18	\$234	\$450	\$1,170	\$4,050
24	\$312	\$600	\$1,560	\$5,400
30	\$390	\$750	\$1,950	\$6,750
36	\$468	\$900	\$2,340	\$8,100

Circuits - Poles	Enclosure Size - H x W x D, In (cm)		Adder	
	2 Inputs / Output	3 Inputs / Output	2 Inputs / Output	3 Inputs / Output
06 - 1	24 x 24 x 12 (61 x 61 x 31)	36 x 30 x 12 (92 x 76 x 31)	\$670	\$1,470
06 - 2	24 x 24 x 12 (61 x 61 x 31)	36 x 30 x 12 (92 x 76 x 31)	\$670	\$1,470
12 - 1	36 x 30 x 12 (92 x 76 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,605
12 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,370
12 - 2	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,370
18 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,880	\$3,325
18 - 2	60 x 36 x 12 (152 x 92 x 31)	60 x 36 x 12 (152 x 92 x 31)	\$1,880	\$3,325
24 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$2,370	\$4,225
24 - 2	62 x 60 x 12 (157 x 152 x 31)	62 x 60 x 12 (157 x 152 x 31)	\$2,370	\$4,225
30 - 1	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$2,860	Consult Sales
30 - 2	62 x 60 x 12 (157 x 152 x 31)	Consult Sales	\$2,860	Consult Sales
36 - 1	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$3,325	Consult Sales
36 - 2	62 x 60 x 12 (157 x 152 x 31)	Consult Sales	\$3,325	Consult Sales

**I/O Mapping Notes**

1. The MAXIMUM number of Inputs for any ITLS System, including Extension Panel, is 72.
2. When **Full I/O Mapping** is selected from the Order Table, any individual sensor or output may be mapped to more than one circuit. For Example: The average temperature of Sensors 1, 2 & 3 is used to control Circuit 1 while simultaneously the maximum temperature of Sensors 3, 4 & 5 is used to control Circuit 2.
3. The maximum amount of inputs for each panel design is as follows:

Number of Circuits	Inputs / Circuit Code from Above Order Table		
	1	2	3
6	6	12	18
12	12	24	36
18	18	36	54
24	24	48	72
30	30	60	Consult Sales
36	36	72	Consult Sales

### ITLS-EXT - IntelliTRACE™ Multiloop Heat Tracing Extension Panel – Line Sensing

Model	Product Description
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ITLS-EXT ITLS-EXT series Intelligent Line Sensing Heat Trace Extension Panel. Designed for Industrial applications in Non-Hazardous Areas. Intended To Be Used With ITLS Heat Trace Line 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, Six to Thirty-Six Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater, Customizable I/O Mapping, Remote Monitoring Capability, CE Third Party Compliance

Code	Circuits	----- NEMA 4 Enclosure Size (HxWxD) In (cm) -----		Panel Board Size	Panel Board Main Bus Rating	Base Price
		1 Pole	2 Pole			
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	N/A	N/A	7,850.00
12	12 Circuits	36 x 30 x 12 (92 x 76 x 31)	-----	18 position	up to 100 A	11,475.00
12	12 Circuits	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	30 position	up to 400 A	12,000.00
18	18 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	16,475.00
18	18 Circuits	-----	60 x 36 x 12 (152 x 92 x 31)	42 position	up to 600 A	16,625.00
24	24 Circuits	48 x 36 x 12 (122 x 92 x 31)	-----	30 position	up to 400 A	18,625.00
24	24 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	30 position (X2)	up to 400 A	21,675.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	30 position	up to 600 A	23,500.00
30	30 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	26,550.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	-----	42 position	up to 600 A	28,100.00
36	36 Circuits	-----	62 x 60 x 12 (157 x 152 x 31)	42 position (X2)	up to 600 A	31,125.00

Code	Line Voltage	Cable Voltage	Circuit Breaker Rating - Type (1 /Loop)	Adder
1	208/120 VAC, 3 Phase 4 Wire	120 VAC	120 V-1 Pole	nc
2	208/120 VAC, 3 Phase 4 Wire	208 VAC	208/240V-2 Pole	nc
3	240/120 VAC, Single Phase 3 Wire	240 VAC	208/240V-2 Pole	nc
4	480/277 VAC, 3 Phase 4 Wire	277 VAC	277V-1 Pole	645.00
5	480/277 VAC, 3 Phase 4 Wire	480 VAC	480V-2 Pole	645.00
6	240/120 VAC, Single Phase 3 Wire	120 VAC	120 V-1 Pole	nc

Code	Cable Load Circuit Breaker Rating	(Multiply the Number of Circuits by the Circuit Breaker Price)	Adder / Ckt
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Rating	..... Individual Circuit Breaker Price .....				Total Breaker Price
	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole	
1	15A Thermal Magnetic \$13	\$25	\$65	\$225	Multiply the number of Circuits by the Circuit Breaker Price. See <b>Cable Load Circuit Total - Adder Chart Below</b>
2	20A Thermal Magnetic \$13	\$25	\$65	\$225	
3	30A Thermal Magnetic \$13	\$25	\$65	\$225	
4	40A Thermal Magnetic \$13	\$25	\$65	\$225	
5	50A Thermal Magnetic \$13	\$25	\$65	\$225	

Code	Main Disconnects	Adder	Code	Main Circuit Breaker	Adder
0	None	nc	A	100A Thermal Magnetic	480.00
1	100A Disconnect	455.00	B	150A Thermal Magnetic	1,040.00
2	150A Disconnect	840.00	C	225A Thermal Magnetic	1,180.00
3	250A Disconnect	1,130.00	D	250A Thermal Magnetic	1,320.00
4	400A Disconnect	1,410.00	E	400A Thermal Magnetic	1,460.00
5	600A Disconnect	1,960.00	F	600A Thermal Magnetic	2,930.00

Code	Enclosure	Choose the Size that aligns with the Number of INPUTS PER CIRCUIT	Adder
1	NEMA 4 Single-Door Wall-Mount Steel Enclosure		nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 24 x 24 x 12 In, (61 x 61 x 31) (cm)		830.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 36 x 30 x 12 In, (92 x 76 x 31) (cm)		1,320.00
4	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 48 x 36 x 12 In, (122 x 92 x 31) (cm)		1,600.00
5	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure: 60 x 36 x 12 In, (152 x 92 x 31) (cm)		1,800.00
6	NEMA 4X 304 Stainless Steel Floor-Mount Enclosure: 62 x 60 x 12 In, (157 x 152 x 31) (cm)		6,160.00

Code	Enclosure Heater	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F, -18°C Ambient)	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F / °C Ambient)	840.00

Code**	Inputs per Circuit	I/O Mapping	Adder
0	1	No I/O Mapping	nc
1	1	Full I/O Mapping	Use Standard Enclosure Sizes From Above 670.00
2	2	Full I/O Mapping	See ITLS I/O Mapping: Enclosure Size & Adder Chart Below
3	3	Full I/O Mapping	
9	X	Special Configuration	Consult Sales

ITLS-EXT - 24 1 3 3 - 1 1 1 Typical Model Number

\* Designed to be paired with an ITLS Panel  
 \*\* This code must match the same code on the Base ITLS Panel

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
0017-42931	15A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43355	20A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43356	30A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43427	40A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43428	50A 1P Thermal Mag Circuit Breaker (120V)	18.00
0017-43373	15A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43374	20A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43345	30A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43375	40A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43429	50A 2P Thermal Mag Circuit Breaker (208/240V)	36.00
0017-43013	15A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42912	20A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42913	30A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-43349	40A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42966	50A 1P Thermal Mag Circuit Breaker (277V)	79.00
0017-42970	15A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43000	20A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-42928	30A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43430	40A 2P Thermal Mag Circuit Breaker (480V)	285.00
0017-43431	50A 2P Thermal Mag Circuit Breaker (480V)	285.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITLS-06	Add -CEXX suffix to Model Number	1,350.00
ITLS-12	Add -CEXX suffix to Model Number	1,700.00
ITLS-18	Add -CEXX suffix to Model Number	2,275.00
ITLS-24	Add -CEXX suffix to Model Number	2,825.00
ITLS-30	Add -CEXX suffix to Model Number	3,100.00
ITLS-36	Add -CEXX suffix to Model Number	3,350.00

**ATEX Certification: Consult Sales on all models.**

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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.

**Technical Notes:**

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

Cable Load Circuit Breaker - Total Adder				
CKTS	120V-1 Pole	208/240V-2 Pole	277-1 Pole	480V-2 Pole
06	\$78	\$150	\$390	\$1,350
12	\$156	\$300	\$780	\$2,700
18	\$234	\$450	\$1,170	\$4,050
24	\$312	\$600	\$1,560	\$5,400
30	\$390	\$750	\$1,950	\$6,750
36	\$468	\$900	\$2,340	\$8,100

ITLS & ITLS-EXT I/O Mapping: Enclosure Size & Total Adder				
Circuits - Poles	Enclosure Size		Adder	
	2 Inputs / Output	3 Inputs / Output	2 Inputs / Output	3 Inputs / Output
06 - 1	24 x 24 x 12 (61 x 61 x 31)	36 x 30 x 12 (92 x 76 x 31)	\$670	\$1,470
06 - 2	24 x 24 x 12 (61 x 61 x 31)	36 x 30 x 12 (92 x 76 x 31)	\$670	\$1,470
12 - 1	36 x 30 x 12 (92 x 76 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,605
12 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,370
12 - 2	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,290	\$2,370
18 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$1,880	\$3,325
18 - 2	60 x 36 x 12 (152 x 92 x 31)	60 x 36 x 12 (152 x 92 x 31)	\$1,880	\$3,325
24 - 1	48 x 36 x 12 (122 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$2,370	\$4,225
24 - 2	62 x 60 x 12 (157 x 152 x 31)	62 x 60 x 12 (157 x 152 x 31)	\$2,370	\$4,225
30 - 1	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$2,860	Consult Sales
30 - 2	62 x 60 x 12 (157 x 152 x 31)	Consult Sales	\$2,860	Consult Sales
36 - 1	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$3,325	Consult Sales
36 - 2	62 x 60 x 12 (157 x 152 x 31)	Consult Sales	\$3,325	Consult Sales

**I/O Mapping Notes**

- The MAXIMUM number of Inputs for any ITLS System, including Extension Panel, is 72.
- When **Full I/O Mapping** is selected from the Order Table, any individual sensor or output may be mapped to more than one circuit. For Example: The average temperature of Sensors 1, 2 & 3 is used to control Circuit 1 while simultaneously the maximum temperature of Sensors 3, 4 & 5 is used to control Circuit 2.
- The maximum amount of inputs for each panel design is as follows:

Number of Circuits	Total Number of Available Inputs per Panel Design		
	Inputs / Circuit Code from Above Order Table		
	1	2	3
6	6	12	18
12	12	24	36
18	18	36	54
24	24	48	72
30	30	60	Consult Sales
36	36	72	Consult Sales

**ITASC1D2 - IntelliTRACE™ Multiloop Heat Tracing Control Panel – Ambient Sensing - Class 1, Division 2**

Model	Product Description							
ITASC1D2 -	ITASC1D2 series Intelligent Ambient Sensing Heat Trace Panel. Designed for Industrial applications and suitable for Class I, Division 2 Hazardous Areas. The ITASC1D2 series offers the following standard features: NEMA 4 enclosure, Industrial 12" (30 cm) Digital CE Computer Touchscreen Operator Interface, PID SCR Power Controller Rated at 40A Per Circuit at 104°F (40°C) 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, ModBus RTU/RS485, Ethernet Communications, Remote Monitoring Capability, Selectable Soft Start Operation, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater and CE & ATEX Certification							
Code	Circuits	Enclosure Size - HxWxD, In (cm)	Line Voltage	Line Phase	Cable Voltage	Base Price		
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	15,950.00		
12	12 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	18,550.00		
18	18 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	21,350.00		
24	24 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	23,850.00		
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	26,600.00		
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	29,100.00		
Code	Enclosure Rating, Material & Size		HxWxD, In (cm)	Enclosure Mounting		Adder		
1	NEMA 4	Painted Steel	Size is per design selection	Wall-Mount Enclosure		nc		
2	NEMA 4X	304 SS	24 x 24 x 12 (61 x 61 x 31)	Wall-Mount Enclosure		830.00		
3	NEMA 4X	304 SS	42 x 36 x 12 (107 x 92 x 31)	Wall-Mount Enclosure		1,500.00		
4	NEMA 4X	304 SS	48 x 36 x 12 (122 x 92 x 31)	Wall-Mount Enclosure		1,600.00		
5	NEMA 4X	304 SS	60 x 36 x 12 (152 x 92 x 31)	Wall-Mount Enclosure		1,800.00		
Code	Enclosure Heater Class 1, Div 2				Adder			
0	No Enclosure Heater				nc			
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)		For use with 6 & 12 circuit designs		415.00			
2	Thermostat Controlled Enclosure Heater (to 0°F Ambient)		For use with 6 & 12 circuit designs		535.00			
3	Thermostat Controlled Enclosure Heater (to -40°F Ambient)		For use with 6 & 12 circuit designs		840.00			
4	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)		For use with 18, 24, 30 & 36 circuit designs		980.00			
5	Thermostat Controlled Enclosure Heater (to 0°F Ambient)		For use with 18, 24, 30 & 36 circuit designs		1,240.00			
6	Thermostat Controlled Enclosure Heater (to -40°F Ambient)		For use with 18, 24, 30 & 36 circuit designs		1,960.00			
Code	Input Options		Adder					
0	Standard Sensor Input		nc					
1	Dry Contact Closure From Ambient Sensing Thermostat		400.00					
2	Remote Snow Sensor Input (i.e. SIT, GIT & CIT type sensors)		2,400.00					
9	Special Configuration		Consult Sales					
Code	Communications		Adder					
0	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet		nc					
9	Other		Consult Sales					
Code	Monitoring		Adder					
0	Standard Monitoring (Local HMI Only)		nc					
1	Remote Desktop (Wired/Wireless Ethernet Only)		110.00					
9	Other		Consult Sales					
ITASC1D2 -	24	1	4	0	-	0	1	Typical Model Number

\*42 - 72 circuit service via ITASC1D2-EXT Extension Panel. See ITASC1D2-EXT heat Tracing Extension Panel - Ambient Sensing - Class 1, Division 2 Order Table

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
	ITASC1D2 HMI - 12" (30cm) diagonal, programmed	Consult Factory
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

Part Number	Item Description	Price, Each
	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITASC1D2-06	Add -CEXX suffix to Model Number	1,825.00
ITASC1D2-12	Add -CEXX suffix to Model Number	2,075.00
ITASC1D2-18	Add -CEXX suffix to Model Number	2,325.00
ITASC1D2-24	Add -CEXX suffix to Model Number	2,575.00
ITASC1D2-30	Add -CEXX suffix to Model Number	2,850.00
ITASC1D2-36	Add -CEXX suffix to Model Number	3,100.00

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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:**

- 120-264V customer supplied instrument power supply
- Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- Do Not Exceed 80% of Panelboard Rating
- See ITASC1D2-EXT Extension Panel Order Table to increase total circuits

**ITASC1D2-EXT - IntelliTRACE™ Multiloop Heat Tracing Extension Panel – Ambient Sensing - Class 1, Div. 2**

Model	Product Description						
ITASC1D2-EXT	ITASC1D2-EXT series Intelligent Ambient Sensing Heat Trace Extension Panel. Designed for Industrial applications and suitable for Class I, Division 2 Hazardous Areas. Designed to be used with ITASC1D2 Heat Trace Line Sensing Panel to increase circuit service. ITASC1D2-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, Six to Thirty-Six Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater and CE & ATEX Certification						
Code	Circuits	Enclosure Size HxWxD, In (cm)		Line Voltage	Line Phase	Cable Voltage	Base Price
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)		120/208/240/277/480	1	120/208/240/277/480	6,700.00
12	12 Circuits	24 x 24 x 12 (61 x 61 x 31)		120/208/240/277/480	1	120/208/240/277/480	9,400.00
18	18 Circuits	42 x 36 x 12 (107 x 92 x 31)		120/208/240/277/480	1	120/208/240/277/480	12,350.00
24	24 Circuits	42 x 36 x 12 (107 x 92 x 31)		120/208/240/277/480	1	120/208/240/277/480	15,050.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)		120/208/240/277/480	1	120/208/240/277/480	17,900.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)		120/208/240/277/480	1	120/208/240/277/480	20,600.00
Code	Enclosure Rating, Material & Size			HxWxD, In (cm)	Enclosure Mounting	Adder	
1	NEMA 4	Painted Steel		Size is per design selection	Wall-Mount Enclosure	nc	
2	NEMA 4X	304 SS		24 x 24 x 12 (61 x 61 x 31)	Wall-Mount Enclosure	825.00	
3	NEMA 4X	304 SS		42 x 36 x 12 (107 x 92 x 31)	Wall-Mount Enclosure	1,500.00	
4	NEMA 4X	304 SS		48 x 36 x 12 (122 x 92 x 31)	Wall-Mount Enclosure	1,600.00	
5	NEMA 4X	304 SS		60 x 36 x 12 (152 x 92 x 31)	Wall-Mount Enclosure	1,800.00	
Code	Enclosure Heater Class 1, Div 2					Adder	
0	No Enclosure Heater					nc	
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)				For use with 6 & 12 circuit designs	415.00	
2	Thermostat Controlled Enclosure Heater (to 0°F Ambient)				For use with 6 & 12 circuit designs	535.00	
3	Thermostat Controlled Enclosure Heater (to -40°F Ambient)				For use with 6 & 12 circuit designs	840.00	
4	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater)				For use with 18, 24, 30 & 36 circuit designs	980.00	
5	Thermostat Controlled Enclosure Heater (to 0°F Ambient)				For use with 18, 24, 30 & 36 circuit designs	1,240.00	
6	Thermostat Controlled Enclosure Heater (to -40°F Ambient)				For use with 18, 24, 30 & 36 circuit designs	1,960.00	
ITASC1D2-EXT -	24	1	4	Typical Model Number			

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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.**

**Accessories:**

Part Number	Item Description	Price, Each
PCN 317315	Power Transformers	Consult Factory
PCN 317340	RTD, Aluminum, NEMA 4	165.00
PCN 308144	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
0076-12009	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**Technical Notes:**

- 120-264V customer supplied instrument power supply
- Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- Do Not Exceed 80% of Panelboard Rating
- These Extension Panels are to be paired with an ITASC1D2 Panel.

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITASC1D2-EXT-06	Add -CEXX suffix to Model Number	725.00
ITASC1D2-EXT-12	Add -CEXX suffix to Model Number	1,050.00
ITASC1D2-EXT-18	Add -CEXX suffix to Model Number	1,350.00
ITASC1D2-EXT-24	Add -CEXX suffix to Model Number	1,650.00
ITASC1D2-EXT-30	Add -CEXX suffix to Model Number	2,075.00
ITASC1D2-EXT-36	Add -CEXX suffix to Model Number	2,325.00

**ITLSC1D2 - IntelliTRACE™ Multiloop Heat Tracing Control Panel – Line Sensing - Class 1, Division 2**

Model	Product Description
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ITLSC1D2 ITLSC1D2 series Intelligent Line Sensing Heat Trace Panel. Designed for Industrial applications and suitable for Class I, Division 2 Hazardous Areas. The ITLSC1D2 series offers the following standard features: NEMA 4 enclosure, Industrial 12" (30 cm) Digital CE Computer Touchscreen Operator Interface, PID SCR Power Controller Rated at 40A Per Circuit at 104°F (40°C) 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, ModBus RTU/RS485, Ethernet Communications, Remote Monitoring Capability, Selectable Soft Start Operation, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Customized I/O (Sensor & Output) Mapping, Thermostat Controlled Enclosure Heater and CE & ATEX Certification

Code	Circuits	Enclosure Size - HxWxD, In (cm) (1 Input per Circuit)	Line Voltage	Line Phase	Cable Voltage	Base Price
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	15,950.00
12	12 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	18,900.00
18	18 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	22,000.00
24	24 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	24,850.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	27,850.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	30,700.00

Code	Enclosure Rating, Material & Size	HxWxD, In (cm)	Enclosure Mounting	Adder
1	NEMA 4 Painted Steel	Size is per design selection	Wall-Mount Enclosure	nc
2	NEMA 4X 304 SS	24 x 24 x 12 (61 x 61 x 31)	Wall-Mount Enclosure	830.00
3	NEMA 4X 304 SS	42 x 36 x 12 (107 x 92 x 31)	Wall-Mount Enclosure	1,500.00
4	NEMA 4X 304 SS	48 x 36 x 12 (122 x 92 x 31)	Wall-Mount Enclosure	1,600.00
5	NEMA 4X 304 SS	60 x 36 x 12 (152 x 92 x 31)	Wall-Mount Enclosure	1,800.00

Choose the Size that aligns with the number of INPUTS PER CIRCUIT in the I/O Mapping section below

Code	Enclosure Heater Class 1, Div 2	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) For use with 6 & 12 circuit designs	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F Ambient) For use with 6 & 12 circuit designs	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F Ambient) For use with 6 & 12 circuit designs	840.00
4	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) For use with 18, 24, 30 & 36 circuit designs	980.00
5	Thermostat Controlled Enclosure Heater (to 0°F Ambient) For use with 18, 24, 30 & 36 circuit designs	1,240.00
6	Thermostat Controlled Enclosure Heater (to -40°F Ambient) For use with 18, 24, 30 & 36 circuit designs	1,960.00

Code	Inputs per Circuit	I/O Mapping	Adder
0	1	No I/O Mapping	nc
1	1	Full I/O Mapping	670.00
2	2	Full I/O Mapping	See ITLSC1D2 I/O Mapping: Enclosure Size & Total Adder Chart Below
3	3	Full I/O Mapping	
9	X	Special Configuration	Consult Sales

Code	Communications	Adder
0	Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet	nc
9	Other	Consult Sales

Code	Monitoring	Adder
0	Standard Monitoring (Local HMI Only)	nc
1	Remote Desktop (Wired/Wireless Ethernet Only)	110.00
9	Other	Consult Sales

ITLSC1D2 - 24 1 4 3 - 0 0 Typical Model Number

\*42 - 72 circuit service via ITLSC1D2-EXT Extension Panel. See ITLSC1D2-EXT heat Tracing Extension Panel - Line Sensing - Class 1, Division 2 Order table.

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
	ITLSC1D2 HMI - 12" (30cm) diagonal, programmed	Consult Factory
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITLSC1D2-06	Add -CEXX suffix to Model Number	1,805.00
ITLSC1D2-12	Add -CEXX suffix to Model Number	2,060.00
ITLSC1D2-18	Add -CEXX suffix to Model Number	2,320.00
ITLSC1D2-24	Add -CEXX suffix to Model Number	2,575.00
ITLSC1D2-30	Add -CEXX suffix to Model Number	2,835.00
ITLSC1D2-36	Add -CEXX suffix to Model Number	3,090.00

**ATEX Certification: Consult Sales on all models.**

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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.

**Technical Notes:**

- 120-264V customer supplied instrument power supply
- Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- Do Not Exceed 80% of Panelboard Rating
- See ITLSC1D2-EXT Extension Panel Order Table to increase total circuits

ITLSC1D2 & ITLSC1D2-EXT I/O Mapping: Enclosure Size & Total Adder				
Circuits	Enclosure Size - H x W x D, In (cm)		Adder	
	2 Inputs / Output	3 Inputs / Output	2 Inputs / Output	3 Inputs / Output
06	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	\$670	\$1,290
12	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	\$1,290	\$2,370
18	42 x 36 x 12 (107 x 92 x 31)	42 x 36 x 12 (107 x 92 x 31)	\$1,880	\$3,325
24	42 x 36 x 12 (107 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$2,370	\$4,380
30	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$2,860	Consult Sales
36	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$3,325	Consult Sales

**I/O Mapping Notes**

- The MAXIMUM number of Inputs for any ITLSC1D2 System, including Extension Panel, is 72.
- When **Full I/O Mapping** is selected from the Order Table, any individual sensor or output may be mapped to more than one circuit. For Example: The average temperature of Sensors 1, 2 & 3 is used to control Circuit 1 while simultaneously the maximum temperature of Sensors 3, 4 & 5 is used to control Circuit 2.
- The maximum amount of inputs for each panel design is as follows:

Number of Circuits	Total Number of Available Inputs per Panel Design		
	Inputs / Circuit Code from Above Order Table		
	1	2	3
6	6	12	18
12	12	24	36
18	18	36	54
24	24	48	72
30	30	60	Consult Sales
36	36	72	Consult Sales

**ITLSC1D2-EXT - IntelliTRACE™ Multiloop Heat Tracing Extension Panel – Line Sensing - Class 1, Division 2**

**Model Product Description**

ITLSC1D2-EXT - ITLSC1D2-EXT series Intelligent Line Sensing Heat Trace Extension Panel. Designed for Industrial applications and suitable for Class I, Division 2 Hazardous Areas. Designed to be used with ITLSC1D2 Heat Trace Line Sensing Panel to increase circuit service. ITLSC1D2-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, Six to Thirty-Six Circuits, Common Alarm Output, Hand/Off/Auto Operation, Current Monitoring, 30 mA Ground Fault Equipment protection, ModBus RTU/RS485, Ethernet Communications, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Thermostat Controlled Enclosure Heater, Customized I/O (Sensor & Output) Mapping, Remote Monitoring Capability, CE & ATEX Certification

Code	Circuits	Enclosure Size - HxWxD, In (cm) (1 Input per Circuit)	Line Voltage	Line Phase	Cable Voltage	Base Price
06	6 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	6,700.00
12	12 Circuits	24 x 24 x 12 (61 x 61 x 31)	120/208/240/277/480	1	120/208/240/277/480	9,750.00
18	18 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	13,100.00
24	24 Circuits	42 x 36 x 12 (107 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	16,050.00
30	30 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	19,250.00
36	36 Circuits	60 x 36 x 12 (152 x 92 x 31)	120/208/240/277/480	1	120/208/240/277/480	22,250.00

Code	Enclosure Rating, Material & Size	HxWxD, In (cm)	Enclosure Mounting	Adder
1	NEMA 4 Painted Steel	Size is per design selection	Wall-Mount Enclosure	nc
2	NEMA 4X 304 SS	24 x 24 x 12 (61 x 61 x 31)	Wall-Mount Enclosure	825.00
3	NEMA 4X 304 SS	42 x 36 x 12 (107 x 92 x 31)	Wall-Mount Enclosure	1,495.00
4	NEMA 4X 304 SS	48 x 36 x 12 (122 x 92 x 31)	Wall-Mount Enclosure	1,600.00
5	NEMA 4X 304 SS	60 x 36 x 12 (152 x 92 x 31)	Wall-Mount Enclosure	1,795.00

**Choose the Size that aligns with the number of INPUTS PER CIRCUIT in the I/O Mapping section below**

Code	Enclosure Heater Class 1, Div 2	Adder
0	No Enclosure Heater	nc
1	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) For use with 6 & 12 circuit designs	415.00
2	Thermostat Controlled Enclosure Heater (to 0°F Ambient) For use with 6 & 12 circuit designs	535.00
3	Thermostat Controlled Enclosure Heater (to -40°F Ambient) For use with 6 & 12 circuit designs	840.00
4	Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) For use with 18, 24, 30 & 36 circuit designs	980.00
5	Thermostat Controlled Enclosure Heater (to 0°F Ambient) For use with 18, 24, 30 & 36 circuit designs	1,240.00
6	Thermostat Controlled Enclosure Heater (to -40°F Ambient) For use with 18, 24, 30 & 36 circuit designs	1,960.00

Code**	Inputs per Circuit	I/O Mapping	Adder
0	1	No I/O Mapping	nc
1	1	Full I/O Mapping	670.00
2	2	Full I/O Mapping	See ITLSC1D2-EXT I/O Mapping: Enclosure Size & Total Adder Chart Below
3	3	Full I/O Mapping	
9	X	Special Configuration	

ITLSC1D2-EXT - 24 1 4 3 Typical Model Number

\*\* This code MUST match the same code on the Base ITLSC1D2 Panel

**Spare / Replacement Parts List:**

Part Number	Item Description	Price, Each
0135-02261	SSR/GFI Power Control Assy, with Heat Sink	3,070.00
0135-02262	RTD Sensor Input Board Assembly	595.00
0135-02263	Digital Distribution Comm Board Assembly	285.00
0002-60054	SSR, 40 Amp rated	120.00
0029-00640	SSR Thermstrate Material	8.00
0025-05227	Common Alarm Relay	51.00
0081-10063	Power Supply 5VDC 6A 30W DIN Rail Mount	180.00
0081-10047	Power Supply 24VDC 2.5A 60W DIN Rail Mount	455.00
0023-15097-0001	6" (15 cm) Ribbon Cable with Connectors	175.00
0023-15097-0002	72" (180 cm) Ribbon Cable with Connectors	200.00

**Accessories:**

Part Number	Item Description	Price, Each
	Power Transformers	Consult Factory
PCN 317315	RTD, Aluminum, NEMA 4	165.00
PCN 317340	RTD, Expl. Resist., Cast Iron/Alum., NEMA 4	210.00
PCN 308144	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT/15m	135.00
PCN 317342	RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT/60m	335.00
0076-12009	Floor Stand Kit, 12" (30cm) Deep, Steel	285.00
0076-12050	Floor Stand Kit, 12" (30cm) Deep, 304 SS	670.00
	Floor Stand Kit, 12" (30cm) Deep, 316 SS	Consult Factory

**CE Third Party Compliance**

Base Panel	Model Number Instructions	Price, Each
ITLSC1D2-EXT-06	Add -CEXX suffix to Model Number	725.00
ITLSC1D2-EXT-12	Add -CEXX suffix to Model Number	1,050.00
ITLSC1D2-EXT-18	Add -CEXX suffix to Model Number	1,350.00
ITLSC1D2-EXT-24	Add -CEXX suffix to Model Number	1,650.00
ITLSC1D2-EXT-30	Add -CEXX suffix to Model Number	2,075.00
ITLSC1D2-EXT-36	Add -CEXX suffix to Model Number	2,325.00

ATEX Certification: Consult Sales on all models.

**Model Number Note:**

-XXXX Indicates that the design has varied from the order table parameters. This could include one or more of the following non-standard 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.

**Technical Notes:**

- 120-264V customer supplied instrument power supply
- Our standard SCCR is 5 KA. Consult sales if a different SCCR is needed.
- Do Not Exceed 80% of Panelboard Rating
- These Extension Panels are to be paired with an ITLSC1D2 Panel.

Circuits	ITLSC1D2 & ITLSC1D2-EXT I/O Mapping: Enclosure Size & Total Adder		Adder	
	Enclosure Size - H x W x D, In (cm)		2 Inputs / Output	3 Inputs / Output
06	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	\$670	\$1,290
12	24 x 24 x 12 (61 x 61 x 31)	24 x 24 x 12 (61 x 61 x 31)	\$1,290	\$2,370
18	42 x 36 x 12 (107 x 92 x 31)	42 x 36 x 12 (107 x 92 x 31)	\$1,880	\$3,325
24	42 x 36 x 12 (107 x 92 x 31)	48 x 36 x 12 (122 x 92 x 31)	\$2,370	\$4,380
30	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$2,860	Consult Sales
36	60 x 36 x 12 (152 x 92 x 31)	Consult Sales	\$3,325	Consult Sales

**I/O Mapping Notes**

- The MAXIMUM number of Inputs for any ITLSC1D2 System, including Extension Panel, is 72.
- When Full I/O Mapping is selected from the Order Table, any individual sensor or output may be mapped to more than one circuit. For Example: The average temperature of Sensors 1, 2 & 3 is used to control Circuit 1 while simultaneously the maximum temperature of Sensors 3, 4 & 5 is used to control Circuit 2.
- The maximum amount of inputs for each panel design is as follows:

Number of Circuits	Total Number of Available Inputs per Panel Design		
	Inputs / Circuit Code from Above Order Table		
6	1	2	3
6	6	12	18
12	12	24	36
18	18	36	54
24	24	48	72
30	30	60	Consult Sales
36	36	72	Consult Sales

**FPAS - weatherTRACE™ Series Heat Trace Panels**

**Model 240/120 Vac Single-Phase, 208/120 Vac Three-Phase Wire**

FPAS series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPAS series offers the following standard features: NEMA 4 enclosure, Hand/Off/Auto Selector Switch, Load Energized Indicator Lamp, Main Power On Lamp, Main Contactor, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Remote or Local Ambient Temperature Controller, Enclosure Heater, and Type Z Pressurization System. The FPAS series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In, (cm)	Base Price
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	3,800.00
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	4,110.00
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	4,690.00
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	4,990.00

Code	Line Voltage	Heater Load	Adder
1	240/120 Vac, Single Phase, 3 Wire	120 Vac	nc
2	208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc
3	208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc
4	240/120 Vac, Single Phase, 3 Wire	240 Vac	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 12 & 20)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 30 & 42)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
9(*)	40 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnects</b>		
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)	255.00
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)	615.00
<b>Main Circuit Breakers for 240/120V line Voltage</b>		
A	80 Amp, 2 Pole Circuit Breaker	190.00
B	175 Amp, 2 Pole Circuit Breaker	540.00
C	250 Amp, 2 Pole Circuit Breaker	805.00
<b>Main Circuit Breakers for 208/120V line Voltage</b>		
F	50 Amp, 3 Pole Circuit Breaker	160.00
G	100 Amp, 3 Pole Circuit Breaker	215.00
H	150 Amp, 3 Pole Circuit Breaker	625.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Ambient Controller	Adder
0	None (See Accessories)	nc
5	6040-R00000 1/16 DIN Controller (Panel Door Mounted)	300.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPAS - 42 2 1 1(20) 2 5 0 0 Typical Model Number (FPAS-4221(20)2500)

**Technical Notes:**

(\*) Enter number of circuit breaker in parenthesis

Remote Mounted Control Accessories	PCN	Price
RTAS Thermostat	389589	370.00
RTAS-EP Division 2 Thermostat	389597	460.00
B-100 NEMA 4X Thermostat	305365	365.00
B-121 Division 2 Thermostat	384104	550.00
THL NEMA 4X Thermostat	387014	335.00
TXL Division 2 Thermostat	387022	525.00
LCD-1 Snow Switch	389781	500.00

**FPAS - weatherTRACE™ Series Heat Trace Panels**

**Model 277 Vac 4-Wire**

FPAS series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPAS series offers the following standard features: NEMA 4 enclosure, Hand/Off/Auto Selector Switch, Load Energized Indicator Lamp, Main Power On Lamp, Main Contactor, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Remote or Local Ambient Temperature Controller, Enclosure Heater, and Type Z Pressurization System. The FPAS series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In. (cm)	Base Price
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	4,110.00
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	4,990.00
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	5,280.00
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	5,400.00
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	5,520.00

Code	Power Source	Load Voltage	Adder
1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
4(*)	40 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc

Code	Disconnects	Adder
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)	320.00
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)	615.00

Code	Main Circuit Breakers	Adder
A	30 Amp, 3 Pole Circuit Breaker	220.00
B	50 Amp, 3 Pole Circuit Breaker	240.00
C	70 Amp, 3 Pole Circuit Breaker	255.00
F	125 Amp, 3 Pole Circuit Breaker	650.00
G	175 Amp, 3 Pole Circuit Breaker	650.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Ambient Controller	Adder
0	None (See Accessories)	nc
5	6040-R00000 1/16 DIN Controller (Panel Door Mounted)	300.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPAS - 302 1 1 2(20) 2 5 1 0 Typical Model Number (FPAS-302112(10)2510)

**Technical Notes:**

(\*) Enter number of circuit breaker in parenthesis

Remote Mounted Control Accessories	PCN	Price
RTAS Thermostat	389589	370.00
RTAS-EP Division 2 Thermostat	389597	460.00
B-100 NEMA 4X Thermostat	305365	365.00
B-121 Division 2 Thermostat	384104	550.00
THL NEMA 4X Thermostat	387014	335.00
TXL Division 2 Thermostat	387022	525.00
LCD-1 Snow Switch	389781	500.00

FPLS weatherTRACE™ Series Heat Trace Panels

**Model** 240/120 Vac Single-Phase, 208/120 Vac Three-Phase Wire

FPLS series Line Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPLS series offers the following standard features: NEMA 4 enclosure, Main Power on Lamp and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Enclosure Heater, and Type Z Pressurization System. The FPLS series have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In. (cm)	Base Price
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	2,350.00
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	2,480.00
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	2,640.00
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	2,710.00

Code	Line Voltage	Heater Load	Adder
1	240/120 Vac, Single Phase, 3 Wire	120 Vac	nc
2	208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc
3	208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc
4	240/120 Vac, Single Phase, 3 Wire	240 Vac	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 12 & 20)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 30 & 42)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
9(*)	40 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnects</b>		
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)	255.00
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)	615.00
<b>Main Circuit Breakers for 240/120V line Voltage</b>		
A	80 Amp, 2 Pole Circuit Breaker	190.00
B	175 Amp, 2 Pole Circuit Breaker	540.00
C	250 Amp, 2 Pole Circuit Breaker	805.00
<b>Main Circuit Breakers for 208/120V line Voltage</b>		
F	50 Amp, 3 Pole Circuit Breaker	160.00
G	100 Amp, 3 Pole Circuit Breaker	215.00
H	150 Amp, 3 Pole Circuit Breaker	625.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0		
1	None	nc
	Type Z Class 1, Division 2	3,380.00

FPLS - 20 1 1 1(4) 2 5 0 Typical Model Number (FPLS-20111(4)100)

**Technical Notes:**

(\*) Enter number of circuit breakers in parenthesis

### FPLS weatherTRACE™ Series Heat Trace Panels

**Model** 277 Vac 4-Wire

FPLS FPLS series Line Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPLS series offers the following standard features: NEMA 4 enclosure, Main Power on Lamp and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Enclosure Heater, and Type Z Pressurization System. The FPLS series have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In, (cm)	Base Price
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	2,930.00
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	3,240.00
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	3,350.00
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	3,470.00
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	3,700.00

Code	Power Source	Load Voltage	Adder
1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc

**Disconnects**

1	100 Amp with 25K Fault Protection (Code 181, 301 & 421 Only)	320.00
2	250 Amp with 35K Fault Protection	615.00

**Main Circuit Breakers**

A	30 Amp, 3 Pole Circuit Breaker	220.00
B	50 Amp, 3 Pole Circuit Breaker	240.00
C	70 Amp, 3 Pole Circuit Breaker	255.00
F	125 Amp, 3 Pole Circuit Breaker	650.00
G	175 Amp, 3 Pole Circuit Breaker	650.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPLS - 181 2 1 1(4) 1 1 0 Typical Model Number (FPLS-181211(4)110)

**Technical Notes:**

(\*) Enter number of circuit breakers in parenthesis

**FPASM weatherTRACE™ Series Heat Trace Panels**

**Model** 240/120 Vac Single-Phase, 208/120 Vac Three-Phase Wire

FPASM series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPASM series offers the following standard features: NEMA 4 enclosure, Hand/Off/Auto Selector Switch, Load Energized Indicator Lamp, Main Power On Lamp, Main Contactor, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPASM weatherTRACE Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or ground fault condition triggers automatic alarm condition to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring Feature. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Remote or Local Ambient Temperature Controller, Enclosure Heater, and Type Z Pressurization System. The FPASM series have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In, (cm)	Base Price
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	7,920.00
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	9,080.00
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	12,290.00
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	15,560.00

Code	Line Voltage	Heater Load	Adder
1	240/120 Vac, Single Phase, 3 Wire	120 Vac	nc
2	208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc
3	208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc
4	240/120 Vac, Single Phase, 3 Wire	240 Vac	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 12 & 20)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 30 & 42)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
9(*)	40 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnects</b>		
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)	255.00
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)	615.00
<b>Main Circuit Breakers for 240/120V line Voltage</b>		
A	80 Amp, 2 Pole Circuit Breaker	190.00
B	175 Amp, 2 Pole Circuit Breaker	540.00
C	250 Amp, 2 Pole Circuit Breaker	805.00
<b>Main Circuit Breakers for 208/120V line Voltage</b>		
F	50 Amp, 3 Pole Circuit Breaker	160.00
G	100 Amp, 3 Pole Circuit Breaker	215.00
H	150 Amp, 3 Pole Circuit Breaker	625.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Ambient Controller	Adder
0	None (See Accessories)	nc
5	6040-R00000 1/16 DIN Controller (Panel Door Mounted)	300.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPASM - 42 2 1 5(20) 2 5 0 0 Typical Model Number (FPASM-42215(20)2500)

**Technical Notes:**

(\*) Enter number of circuit breaker in parenthesis

Remote Mounted Control Accessories	PCN	Price
RTAS Thermostat	389589	370.00
RTAS-EP Division 2 Thermostat	389597	460.00
B-100 NEMA 4X Thermostat	305365	365.00
B-121 Division 2 Thermostat	384104	550.00
THL NEMA 4X Thermostat	387014	335.00
TXL Division 2 Thermostat	387022	525.00
LCD-1 Snow Switch	389781	500.00

**FPASM weatherTRACE™ Series Heat Trace Panels**

**Model** 277 Vac 4-Wire; ambient rating 40°C (104°F)

FPASM series Ambient Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPASM series offers the following standard features: NEMA 4 enclosure, Hand/Off/Auto Selector Switch, Load Energized Indicator Lamp, Main Power On Lamp, Main Contactor, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPASM weatherTRACE Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or ground fault condition triggers automatic alarm condition to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring Feature. Options include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Remote or Local Ambient Temperature Controller, Enclosure Heater, and Type Z Pressurization System. The FPASM series have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In. (cm)	Base Price
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	10,540.00
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	13,190.00
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	15,810.00
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	16,110.00
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	16,390.00

Code	Power Source	Load Voltage	Adder
1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 277 Vac load	540.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 277 Vac load	540.00
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 277 Vac load	540.00
4(*)	40 Amp 1-Pole GFI Circuit Breaker for 277 Vac load	540.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnect</b>		
1	100 Amp with 25K Fault Protection (Code 181, 301 & 421 Only)	320.00
2	250 Amp with 35K Fault Protection	615.00
<b>Main Circuit Breakers</b>		
A	30 Amp, 3 Pole Circuit Breaker	220.00
B	50 Amp, 3 Pole Circuit Breaker	240.00
C	70 Amp, 3 Pole Circuit Breaker	255.00
F	125 Amp, 3 Pole Circuit Breaker	650.00
G	175 Amp, 3 Pole Circuit Breaker	650.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Ambient Controller	Adder
0	None (See Accessories)	nc
5	6040-R00000 1/16 DIN Controller (Panel Door Mounted)	300.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPASM - 422 1 1 1(20) 2 5 0 0 Typical Model Number (FPAS-422111(10)2500)

**Technical Notes:**

(\*) Enter number of circuit breaker in parenthesis

Remote Mounted Control Accessories	PCN	Price
RTAS Thermostat	389589	370.00
RTAS-EP Division 2 Thermostat	389597	460.00
B-100 NEMA 4X Thermostat	305365	365.00
B-121 Division 2 Thermostat	384104	550.00
THL NEMA 4X Thermostat	387014	335.00
TXL Division 2 Thermostat	387022	525.00
LCD-1 Snow Switch	389781	500.00

**FPLSM weatherTRACE™ Series Heat Trace Panels**

**Model** 240/120 Vac Single-Phase, 208/120 Vac Three-Phase 4-Wire

FPLSM FPLSM series Line Sensing Heat Trace Panels are designed for use in industrial Freeze Protection and Snow Melt applications. The Chromalox FPLSM series offers the following standard features: NEMA 4 enclosure, Main Power On Lamp, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPLSM WeatherTRACE Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition triggers and automatic alarm to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring Feature. Options Include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Cabinet Heater, and Type Z Pressurization System. The FPLSM series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In, (cm)	Base Price
12	12 Positions (100 Amp Main Rating)	(12) 1-pole breakers or (6) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	7,040.00
20	20 Positions (100 Amp Main Rating)	(20) 1-pole breakers or (10) 2-pole Breakers	48 x 36 x 10 (122 x 92 x 25)	8,150.00
30	30 Positions (225 Amp Main Rating)	(30) 1-pole breakers or (14) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	12,290.00
42	42 Positions (225 Amp Main Rating)	(42) 1-pole breakers or (20) 2-pole Breakers	60 x 36 x 10 (152 x 92 x 25)	14,050.00

Code	Line Voltage	Heater Load	Adder
1	240/120 Vac, Single Phase, 3 Wire	120 Vac	nc
2	208/120 Vac, 3 Phase, 4 Wire	120 Vac	nc
3	208/120 Vac, 3 Phase, 4 Wire	208 Vac (240 Vac Cable)	nc
4	240/120 Vac, Single Phase, 3 Wire	240 Vac	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 12 & 20)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 30 & 42)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
3(*)	25 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
4(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	160.00
5(*)	15 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
6(*)	20 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
7(*)	25 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00
8(*)	30 Amp 2-Pole GFI Circuit Breaker for 208/240 Vac load	240.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnects</b>		
1	100 Amp with 65K Fault Protection (Code 12 & 20 Only)	255.00
2	250 Amp with 65K Fault Protection (Code 30 & 42 Only)	615.00
<b>Main Circuit Breakers for 240/120V line Voltage</b>		
A	80 Amp, 2 Pole Circuit Breaker	190.00
B	175 Amp, 2 Pole Circuit Breaker	540.00
C	250 Amp, 2 Pole Circuit Breaker	805.00
<b>Main Circuit Breakers for 208/120V line Voltage</b>		
F	50 Amp, 3 Pole Circuit Breaker	160.00
G	100 Amp, 3 Pole Circuit Breaker	215.00
H	150 Amp, 3 Pole Circuit Breaker	625.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPLSM - 30 2 1 2(30) 3 5 0 Typical Model Number (FPLSM-30212(30)300)

**Technical Notes:**

(\*) Enter number of circuit breaker in parenthesis

## FPLSM weatherTRACE™ Series Heat Trace Panels

**Model** 277 Vac 4-Wire; ambient rating 40°C (104°F)

FPLSM FPLSM series Line Sensing Heat Trace Panels are designed for use in Freeze Protection and Snow Melt applications. The Chromalox FPLSM series offers the following standard features: NEMA 4 enclosure, Main Power On Lamp, and Thermal Magnetic Branch Circuit Breakers with 30mA Ground Fault Equipment Protection. The FPLSM WeatherTRACE Sentinel continually monitors the supply voltage to each individual heat trace circuit. Loss of voltage or a ground fault condition triggers and automatic alarm to an annunciator panel which identifies the faulted zone and a Common Alarm is activated with the Re-Ring Feature. The FPLSM Options Include: NEMA 4X 304 Stainless Steel Enclosures, Main Disconnect Switch, Enclosure Heater, and Type Z Pressurization System. The FPLSM series panels have UL and cUL Third Party Approvals.

Code	Panelboard	Available Breaker Poles	Enclosure Size HxWxD In, (cm)	Base Price
181	18 Positions (100 Amp Main Rating)	(8) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	9,480.00
301	30 Positions (100 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	11,830.00
421	42 Positions (100 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	14,940.00
302	30 Positions (225 Amp Main Rating)	(14) 1-pole breakers	48 x 36 x 10 (122 x 92 x 25)	15,530.00
422	42 Positions (225 Amp Main Rating)	(20) 1-pole breakers	60 x 36 x 10 (152 x 92 x 25)	16,110.00

Code	Power Source	Heater Load	Adder
1	3 Phase Power, 277/480 Vac 4-Wire	277 Vac (240 Vac Cable)	nc

Code	Enclosure Rating	Adder
1	NEMA 4 Single-Door, Wall-Mount Steel Enclosure	nc
2	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 181, 301 & 302)	1,600.00
3	NEMA 4X 304 Stainless Steel Wall-Mount Enclosure; (Code 421 & 422)	1,780.00

Code	Branch Circuit Breaker Selection (DO NOT EXCEED MAIN RATING)	Adder / Ckt
1(*)	15 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
2(*)	20 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00
3(*)	30 Amp 1-Pole GFI Circuit Breaker for 120 Vac load	540.00

Code	Main Disconnect or Main Circuit Breaker Selection	Adder
0	None	nc
<b>Disconnects</b>		
1	100 Amp with 25K Fault Protection (Code 181, 301 & 421 Only)	320.00
2	250 Amp with 35K Fault Protection	615.00
<b>Main Circuit Breakers</b>		
A	30 Amp, 3 Pole Circuit Breaker	220.00
B	50 Amp, 3 Pole Circuit Breaker	240.00
C	70 Amp, 3 Pole Circuit Breaker	255.00
F	125 Amp, 3 Pole Circuit Breaker	650.00
G	175 Amp, 3 Pole Circuit Breaker	650.00
J	225 Amp, 3 Pole Circuit Breaker	650.00

Code	Enclosure Heater	Adder
0	None	nc
1	Thermostat Controlled Enclosure Heater	255.00

Code	Pressurization Control System	Adder
0	None	nc
1	Type Z Class 1, Division 2	3,380.00

FPLSM - 181 1 1 1(5) 1 0 0 Typical Model Number (FPLS-18111(5)100)

**Technical Notes:**

(\*) Enter number of circuit breakers in parenthesis