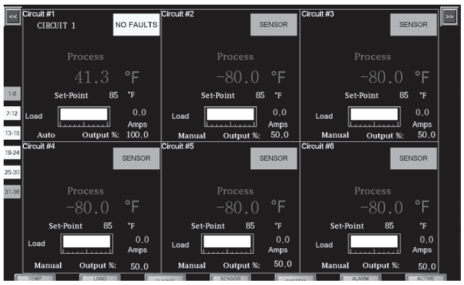
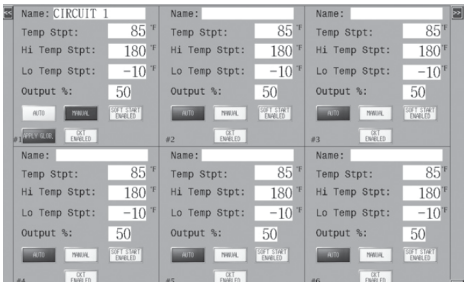
# IntelliTrace

# CIP BASE
# CIP-EXT EXTENSION PANEL

## Commercial Heat Tracing Control Panel for Ordinary Areas


- 10” or 7” Touch Screen HMI
- 40 Amps/Circuit @ 100 to 480 VAC
- 2 Circuits to 72 Circuits
- NEMA 4 or NEMA 4X Enclosure
- SCR Control
- Integral Circuit Panel with Circuit Breakers
- Optional Main Breaker
- Soft Start Feature
- Full Communications
- Full Alarm and Monitoring Capabilities on GFEP, Temperature, Sensor, Current Load & Communications
- Customizable Sensor Mapping
- Optional Enclosure Heater
- UL, cUL
- Optional CE





The 10” or 7” Touch Screen Computer provides real time display of process variable, set point, load current, load demand (%), operation mode type, alarm status and alarm type for any 2 or 6 circuits at time as well as alarm status for all other circuits.

The Quick Launch buttons take you to any other 2 or 6-circuit real time display screen as well as the Setup, Fault, Log or Communication Screen. All set point, alarm, security, time, circuit identification, sensor mapping, tuning, communications and control type mode settings are easily accomplished through the intuitive & familiar Windows based menu screens. All of these functions are achievable locally or remotely via wired or wireless communications.

### Description

The IntelliTrace CIP Series is a microprocessor based Control/Monitoring and Power Management system for Ambient Sensing, Line Sensing or a combination of Line and Ambient Sensing Heat Trace Applications and is suitable for use in ordinary areas.

The base panels will handle 2 - 48 circuits and may be increased up to 72 circuits with the Extension Panels. A 2 to 4 circuit extension panel may be added to a 6-48 circuit panel but not vice versa. Each circuit has a 40 Amperage capacity and accepts 100 to 480 VAC service. The SCR Control may be set to Automatic, which includes PID or On/Off control or to Manual, which spans a 0% to 100% control output.

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

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

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

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

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### ADVANCED FEATURES

**Soft Start Feature**

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

**Auto Cycle Feature**

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

**Sensor Mapping**

The CIP Control Panels provide the owner with customizable Sensor Mapping. This becomes a very powerful and desirable feature when the owner needs added flexibility in controlling the circuit outputs beyond the standard single sensor input.

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

### MORE ON SENSOR MAPPING

Ambient or Line Sensing - Single Sensor: A single sensor (RTD) may be mapped (or linked) to multiple Output Circuits. This allows several circuits to be controlled by a single sensor.

**Minimum, Maximum, Averaging**

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

**Multiple Sensor Mapping**

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

**Combining Sensing Types**

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

### TOUCH SCREEN COMPUTER

- 2 or 6 Circuit displayed / screen
- Quick launch to any 2 or 6 circuit group, Setup

**Menu or System Screens**

- Full User Setting Capabilities - Specific Circuit Naming/Identification, Baud rate, set points, units, alarms, etc.
- Remote Desktop Monitoring

**Optional Features:**

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

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## Commercial Heat Tracing Control Panel for Ordinary Areas

### TECHNICAL SPECIFICATIONS

Panel Specifications

| | |
|---|---|
| Supply Voltage: | 100 - 480 VAC, 3 phase |
| Operating Environment: | -40 to +104°F (-40 to +40°C)* Enclosure heater required for Ambient Temperatures below 32˚F (0˚C) |
| Enclosure: | NEMA 4 or Optional NEMA 4X 304 SS |
| Enclosure Size: | See Model Description Tables |
| Communications: | Modbus RTU/RS-485, Ethernet, BACnet |
| Alarms: | Hi/Lo Temp, GFEP – 20 mA to 150 mA, Hi/Lo Current – 0.1 to 50A or off |
| Input: | 100Ω Platinum 3-wire RTD |
| Output: | SCR, Zero cross fired |
| Current Maximum: | 40 Amps/Circuit at 104°F (40°C) |
| Auto-Cycle: | 1-999 hours/off |
| Failed Sensor Output Setting: | 0 – 100% |
| Control Mode: | Auto, Manual (Hand), Off<br>Auto: PID or ON/OFF with adjustable dead band<br>Manual: 0% - 100% output, 1% increment |
| Load Management: | DOT (Demand On Transfer) timing, with Soft Start |
| Approvals: | UL, cUL Listed. Optional CE Certification |
| Area Classifications: | Ordinary Areas |
| Temperature Rating | T4A (UL) |

# IntelliTrace

# CIP BASE

**Technical Notes:**

1. Refer to PK497 for Installation and Operation details
2. Our standard SCCR is 5 kA. Consult sales if a higher SCCR rating is needed.
3. See CIP-EXT to increase circuits up to 8 circuits for 2-4 Circuit Panels & up to 72 Circuits for 6-48 Circuit Panels.
4. 6-48 Circuit Extension Panels can not be added to 2-4 Circuit Panels but 2-4 circuit extension panels can be added to 6-8 Circuit Panels (up to 72 circuits)

**Ordering Information**
To Order — Complete the Model Number using the Matrix provided.

## Commercial Heat Tracing Control Panel for Ordinary Areas

**Model** CIP

**Product Description**

IntelliTrace Line/Ambient Sensing Heat Trace Panels are Designed for Commercial applications in Non-Hazardous Areas. CIP series offers the following standard features: NEMA 4 enclosure, 10" (7" for 2 and 4 Loop Models) HMI Controller Rated at 40A Per Circuit at 104°F (40°C) (Expandable to Seventy-Two Circuits*), Common Alarm Output, Operator Interface, PID SCR Power, Hand/Off/Auto Operation Breaker for Instrument Power Included, Current Monitoring, 30 mA Ground Fault Equipment Protection, ModBus RTU/RS485 or TCP/Ethernet Communications, Lockout Capable Breakers, UL & cUL Third Party Compliance. Options Include: NEMA 4XSS Enclosure, Copper Ground Bar (Standard is Aluminum), Remote Monitoring Capability, Thermostat Controlled Enclosure Heater, Heater Power and RTD Terminal Blocks, CE Third Party Compliance.

**Code — Circuits**

| Code | Circuits | Code | Circuits |
|---|---|---|---|
| 02 | 2 Circuits | 24 | 24 Circuits |
| 04 | 4 Circuits | 30 | 30 Circuits |
| 06 | 6 Circuits | 36 | 36 Circuits |
| 12 | 12 Circuits | 42 | 42 Circuits |
| 18 | 18 Circuits | 48 | 48 Circuits |

**Code — Line Voltage — Cable Voltage**

| Code | Line Voltage | Cable Voltage |
|---|---|---|
| 1 | 208/120 VAC, 3 Phase 4 Wire | 120 V- 1 Pole or 208 V - 2 Pole |
| 2 | 240/120 VAC, Single Phase 3 Wire | 120 V- 1 Pole or 240 V - 2 Pole |
| 3 | 480/277 VAC, 3 Phase 4 Wire | 277 V- 1 Pole or 480 V - 2 Pole |

**Code — Cable Load Circuit Breaker Rating (Select Breaker Amperage and *1P/2P to Select Breaker Voltage 1(1P)=15A, 120V Breakers)**

| Code | |
|---|---|
| 0 | None |
| 1 | 15A Thermal Magnetic |
| 2 | 20A Thermal Magnetic |
| 3 | 30A Thermal Magnetic |
| 4 | 40A Thermal Magnetic |
| 5 | 50A Thermal Magnetic |

**Code — Main Circuit Breaker — Typical Voltage**

| Code | Main Circuit Breaker | Typical Voltage |
|---|---|---|
| 0 | None | None |
| 1 | 30A Thermal Magnetic | 277/480V 3P |
| 2 | 50A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 3P |
| 3 | 70A Thermal Magnetic | 277/480V 3P |
| 5 | 100A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 1P |
| 6 | 125A Thermal Magnetic | 277/480V 3P |
| 7 | 150A Thermal Magnetic | 120/208V 3P |
| 8 | 175A Thermal Magnetic | 120/240V 1P, 277/480V 3P |
| 9 | 225A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 3P |
| X | Other (If Main Disconnect is needed Contact Factory for Assistance) | |

**Code — Enclosure Heater (Anti-Condensation Heater Recommended at a Minimum)**

| Code | |
|---|---|
| 1 | Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) |
| 2 | Thermostat Controlled Enclosure Heater (Needed for 0°F, -18°C Minimum Ambient Temperature) |
| 3 | Thermostat Controlled Enclosure Heater (Needed for -40°F/°C Minimum Ambient Temperature) |

**Code — Panel Options *(Price is per ckt, multiply adder times number of ckt's for total adder, Enclosure size will increase with this option)**

| Code | | Code | |
|---|---|---|---|
| 0 | None | 6 | Power Recepticle (on separate breaker) |
| 1 | HMI Sunshield (Rqd if Panel is located Outdoors) | 7 | Copper Ground Bar |
| 2 | Panel Weathershield | 8 | Loss of Power Relay |
| 3 | Heater Power and RTD Terminal Blocks* | B | Floor Stands for 12" Deep Panel |
| 4 | Z-purge system | C | Floor Stands for 16" Deep Panel |
| 5 | Panel Light (on separate breaker) | X | Other/Multiple Options (If multiple options needed contact factory for assistance) |

**Code — Number of 100 Ohm RTD Sensor Inputs (must be multiple of 6, up to 48 inputs, MAX. 3 RTD's/heater ckt.)**

| Code | | Code | |
|---|---|---|---|
| 0 | None | 5 | 30 |
| 1 | 6 (Select if Ambient Sensing panel) | 6 | 36 |
| 2 | 12 | 7 | 42 |
| 3 | 18 | 8 | 48 |
| 4 | 24 | 9 | Other (Call Factory for Assitance) |

**Code — Communications**

| Code | |
|---|---|
| 1 | Standard: ModBus RTU/RS485 or Modbus TCP/Ethernet |
| 2 | ModBus TCP/Wireless |
| 3 | BACNet |
| 9 | Other |

**Code — Temperature Sensing Solutions**

| Code | |
|---|---|
| 1 | Standard Wired Sensing |
| 4 | ETI Internal Snow Switch (SnowOwl, GIT-1, SIT-6E) |
| 5 | Chromalox Smart T&M Sensor Input (CS-ASM, CS-PSM, CS-GSM) |

**Code — Enclosure (Size determined by Table 1)**

| Code | |
|---|---|
| 1 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 24 X 12 |
| 2 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 12 |
| 3 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 |
| 5 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 |
| 6 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 |
| 7 | NEMA 4 Single-Door Wall-Mount Steel Enclosure 72 X 36 X 12 |
| A | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 24 X 12 |
| B | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 12 |
| C | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 |
| E | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 12 |
| F | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16 |
| G | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 72 X 36 X 12 |

| CIP | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | Typical Model Number |
|---|---|---|---|---|---|---|---|---|---|---|---|

IntelliTrace

**Ordering Information**
To Order — Complete the Model Number using the Matrix provided.

# CIP-EXT EXTENSION PANEL

## Commercial Heat Tracing Control Panel for Ordinary Areas

**Model** **Product Description**

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

| Code | Circuits | Code | Circuits |
|---|---|---|---|
| **02** | 2 Circuits | **24** | 24 Circuits |
| **04** | 4 Circuits | **30** | 30 Circuits |
| **06** | 6 Circuits | **36** | 36 Circuits |
| **12** | 12 Circuits | **42** | 42 Circuits |
| **18** | 18 Circuits | **48** | 48 Circuits |

| Code | Line Voltage | Cable Voltage |
|---|---|---|
| **1** | 208/120 VAC, 3 Phase 4 Wire | 120 V- 1 Pole or 208 V - 2 Pole |
| **2** | 240/120 VAC, Single Phase 3 Wire | 120 V- 1 Pole or 240 V - 2 Pole |
| **3** | 480/277 VAC, 3 Phase 4 Wire | 277 V- 1 Pole or 480 V - 2 Pole |

| Code | Cable Load Circuit Breaker Rating (Select Breaker Amperage and *1P/2P to Select Breaker Voltage 1(1P)=15A, 120V Breakers) |
|---|---|
| **0** | None |
| **1** | 15A Thermal Magnetic |
| **2** | 20A Thermal Magnetic |
| **3** | 30A Thermal Magnetic |
| **4** | 40A Thermal Magnetic |
| **5** | 50A Thermal Magnetic |

| Code | Main Circuit Breaker | Typical Voltage |
|---|---|---|
| **0** | None | None |
| **1** | 30A Thermal Magnetic | 277/480V 3P |
| **2** | 50A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 3P |
| **3** | 70A Thermal Magnetic | 277/480V 3P |
| **4** | 80A Thermal Magnetic | 120/240V 1P |
| **5** | 100A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 1P |
| **6** | 125A Thermal Magnetic | 277/480V 3P |
| **7** | 150A Thermal Magnetic | 120/208V 3P |
| **8** | 175A Thermal Magnetic | 120/240V 1P, 277/480V 3P |
| **9** | 225A Thermal Magnetic | 120/208V 3P, 120/240V 1P, 277/480V 3P |
| **X** | Other (If Main Disconnect is needed Contact Factory for Assistance) | |

| Code | Enclosure Heater (Anti-Condensation Heater Recommended at a Minimum) |
|---|---|
| **1** | Thermostat Controlled Enclosure Heater (Anti-Condensation Heater) |
| **2** | Thermostat Controlled Enclosure Heater (Needed for 0°F, -18°C Minimum Ambient Temperature) |
| **3** | Thermostat Controlled Enclosure Heater (Needed for -40°F/°C Minimum Ambient Temperature) |

| Code | Panel Options *(Price is per ckt, multiply adder times number of ckt's for total adder, Enclosure size will increase with this option) | Code | Panel Options |
|---|---|---|---|
| **0** | None | **7** | Copper Ground Bar |
| **2** | Panel Weathershield | **8** | Loss of Power Relay |
| **3** | Heater Power and RTD Terminal Blocks* | **B** | Floor Stands for 12" Deep Panel |
| **4** | Z-purge system | **C** | Floor Stands for 16" Deep Panel |
| **5** | Panel Light (on separate breaker) | **X** | Other/Multiple Options (If multiple options needed contact factory for assistance) |
| **6** | Power Recepticle (on separate breaker) | | |

| Code | Number of 100 Ohm RTD Sensor Inputs (must be multiple of 6, up to 48 inputs, MAX. 3 RTD's/heater ckt.) | Code | Number of 100 Ohm RTD Sensor Inputs |
|---|---|---|---|
| **0** | None | **5** | 30 |
| **1** | 6 (Select if Ambient Sensing panel) | **6** | 36 |
| **2** | 12 | **7** | 42 |
| **3** | 18 | **8** | 48 |
| **4** | 24 | **9** | Other (Call Factory for Assitance) |

| Code | Communications |
|---|---|
| **9** | Standard: MODBUS RTU/RS-485 (Communication with Main Panel) |

| Code | Temperature Sensing Solutions |
|---|---|
| **1** | Standard Wired Sensing |
| **4** | ETI Internal Snow Switch (SnowOwl, GIT-1, SIT-6E) |
| **5** | Chromalox Smart T&M Sensor Input (CS-ASM, CS-PSM, CS-GSM) |

| Code | Enclosure (Size determined by Table 1) |
|---|---|
| **1** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 24 X 24 X 12 |
| **2** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 30 X 30 X 12 |
| **3** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 42 X 36 X 12 |
| **5** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 12 |
| **6** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 60 X 36 X 16 |
| **7** | NEMA 4 Single-Door Wall-Mount Steel Enclosure 72 X 36 X 12 |
| **A** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 24 X 24 X 12 |
| **B** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 30 X 30 X 12 |
| **C** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 42 X 36 X 12 |
| **E** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 12 |
| **F** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 60 X 36 X 16 |
| **G** | NEMA 4X 304 Stainless Steel Wall-Mount Enclosure 72 X 36 X 12 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CIP-EXT** | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | | Typical Model Number |

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# CIP-EXT EXTENSION PANEL

## Commercial Heat Tracing Control Panel for Ordinary Areas

**Technical Notes**

1. Refer to PK497 for Installation and Operation details
2. Our standard SCCR is 5 kA. Consult sales if a higher SCCR rating is needed.
3. See CIP/CIP-EXT to increase circuits up to 8 loops for 2-4 Circuit Panels and up to 72 Circuits for 6-48 Circuit Panels. 6-48 Circuit Extension Panels can not be added to 2-4 Circuit Panels but 2-4 circuit extension panels can be added to 6-8 Circuit Panels (up to 72 circuits)

**Table 1: Enclosure Size Selection**

| Panel Size | Enclosure Size - H x W x D in (cm) | | |
|---|---|---|---|
| | 1 RTD's/Circuit | 2 RTD's/Circuit | 3 RTD's/Circuit |
| 2-1P | 24x24x12 | 24x20x10 | Consult Factory |
| 2-2P | 24x24x12 | 24x20x10 | Consult Factory |
| 4-1P | 24x24x12 | 24x20x10 | Consult Factory |
| 4-2P | 30x30x12 | 30x30x10 | Consult Factory |
| 6-1P | 24x24x12 | 24x20x12 | Consult Factory |
| 6-2P | 30x30x12 | 30x30x10 | Consult Factory |
| 12-1P | 30x30x12 | 30x30x10 | Consult Factory |
| 12-2P | 42x36x12 | 42x36x12 | Consult Factory |
| 18-1P | 42x36x12 | 42x36x12 | Consult Factory |
| 18-2P | 60x36x12 | 60x36x12 | Consult Factory |
| 24-1P | 42x36x12 | 42x36x12 | Consult Factory |
| 24-2P | 60x36x16 | 42x36x16 | Consult Factory |
| 30-1P | 60x36x12 | 60x36x12 | Consult Factory |
| 30-2P | 60x36x16 | 60x36x16 | Consult Factory |
| 36-1P | 60x36x12 | 60x36x12 | Consult Factory |
| 36-2P | 60x36x16 | 60x36x16 | Consult Factory |
| 42-1P | 60x36x16 | 60x36x16 | Consult Factory |
| 42-2P | Consult factory | Consult factory | Consult Factory |
| 48-1P | 60x36x16 | 60x36x16 | Consult Factory |
| 48-2P | Consult factory | Consult factory | Consult Factory |

Note: Table 1 is a general guideline for Enclosure Size Selection. Adding certain options could cause enclosure size to differ. If RTD and Power terminals are selected as an option increase panel size by one size over what is published on this table. If Panel dimensions are critical Consult Factory for exact selection.

**Spare/Replacement Parts for CIP & CIP-EXT**

| Part Number | Description |
|---|---|
| N/A | SSR/GFI Power Control Assy, with Heat Sink |
| 0135-02273 | Control Module Board Assembly |
| 0135-02262 | RTD Sensor Input Board Assembly |
| 0135-02263 | Digital Distribution Comm Board Assembly (-EXT panels only) |
| 0002-60054 | SSR, 40 Amp rated |
| 0029-00640 | SSR Thermstrate Material |
| 0025-05312 | Common Alarm Relay |
| 0025-05309 | Common Alarm Relay (CID2 Panels Only) |
| 0081-10063 | Power Supply 5VDC 6A 30W DIN Rail Mount |
| 0081-10047 | Power Supply 24VDC 2.5A 60W DIN Rail Mount |
| 0108-70509 | CIP 10" Display |
| 0108-70507 | CIP 7" Display |
| 0017-43753 | 15A 1P Circuit Breaker (120V or 277V) |
| 0017-43754 | 20A 1P Circuit Breaker (120V or 277V) |
| 0017-43755 | 30A 1P Circuit Breaker (120V or 277V) |
| 0017-43756 | 40A 1P Circuit Breaker (120V) |
| 0017-43757 | 50A 1P Circuit Breaker (120V) |
| 0017-43758 | 15A 2P Circuit Breaker (208/240V or 480V) |
| 0017-43759 | 20A 2P Circuit Breaker (208/240V or 480V) |
| 0017-43760 | 30A 2P Circuit Breaker (208/240V or 480V) |
| 0017-43761 | 40A 2P Circuit Breaker (208/240V or 480V) |
| 0017-43762 | 50A 2P Circuit Breaker (208/240V or 480V) |
| 0023-15097-0001 | 6" (15 cm) Ribbon Cable with Connectors |
| 0023-15097-0002 | 72" (180 cm) Ribbon Cable with Connectors |

**Accessories for CIP & CIP-EXT**

| Part Number | Description |
|---|---|
| PCN 514263 | RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 50 FT |
| PCN 514255 | RTD Ext Wire, 3-wire, 16 ga, Cu, shielded, 200 FT |