Cost effective precise temperature control
The reliable and user friendly modular cabinet solution:

I-Series Temperature Controllers
I-Series controllers are...

- Robust modular desktop controllers
- For up to 48 control zones
- Consisting of
  a) control modules with 1 control zone
  b) being built into cabinets of different sizes
- Which can be used for hot runner systems with a small or a medium number of control zones → c) or for service and maintenance actions.

Functions and features

- Auto mode with PID² control
- Automatic or manual modes of operation
- Soft start, boost and stand-by modes included
- Adjustable time and output soft start settings
- Controller lock feature
- Built in load protection if Triac module is shorted out
- Overvoltage protection
- Heater short cut protection
- Dual display shows Present Value (PV) and Set Value (SV)
- Thermocouple settings J or K type
- Setting can be switched between °C and F°
- High and low alarm temperature settings
- Alarm log history
- Wiring and connection according to customer specification

Benefits

- Cost effective and reliable temperature control
- User friendly solution
- Easy to use and maintain
- Robust modular concept
**Modes of operation and functions**

**Modes of operation**
- Auto mode (standard)
- Standby mode
- Manual mode
- Boost mode

**Protection functions**
- Soft-start
- Controller lock
- Load protection if Triac is shortened out
- Overvoltage protection
- Heater short cut protection

**Enhanced operation functions**
- Alarm History

<table>
<thead>
<tr>
<th>Standard models</th>
<th>h</th>
<th>w</th>
<th>d</th>
<th>h1*</th>
<th>w1*</th>
<th>d1*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 zone controller</td>
<td>225</td>
<td>215</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4 zone controller</td>
<td>225</td>
<td>453</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6 zone controller</td>
<td>225</td>
<td>553</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8 zone controller</td>
<td>225</td>
<td>653</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12 zone controller</td>
<td>225</td>
<td>856</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>24 zone controller</td>
<td>438</td>
<td>856</td>
<td>353</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>48 zone controller</td>
<td>836</td>
<td>856</td>
<td>353</td>
<td>1140</td>
<td>910</td>
<td>450</td>
</tr>
</tbody>
</table>

*optional

**Temperature control**
- No. of control zones: 1...48
- Zones per control card: 1
- Control algorithm: PID2
- Control accuracy: ± 0.3 °C
- Calibration accuracy: 0.1 °C
- Operation range: 30...500 °C
- Temperature display: °C / °F
- User selectable standby temperature: 30...400 °C

**Signal input**
- Thermocouple type: J / K
- Internal cold junction compensation: ✓
- External resistance: 10 M Ohm

**Electro specification**
- Input power, 3 phase: 240 / 230 VAC
- Frequency: 50/60 Hz
- Current/power per control zone: 15 Amp / 3600 W
- Customized wiring and connections: ✓
- Ambient temperature for operation: 0...50 °C
- Operation humidity, non-condensing: ...90%