CETAL power control panels are designed for industrial heating applications. We have developed a turn-key standard range.

Advantages

- Power control panels designed for industrial applications
- Quick and safe installation and start-up
- High-quality components (Eurotherm and Schneider Electric)
- Safety power contactor separated from the temperature control loop
- Optimized frame size for space saving
- Faster engineering time
CETAL, industrial heating system designer and manufacturer, offers you a range of turn-key power control panels optimized for your process.

**Which control mode to choose?**
For processes with high thermal inertia (for example, heating of large tanks of water or oil), a power control panel with On/Off control mode (TOR) with contactor (ARS or ARC models) is recommended.

**PID (Proportional, Integral, and Derivative) controls** are better suited:
- if the process consists in fast heating of liquid or gas (such as circulation heaters)
- if a quick reaction time with temperature control accuracy is required
- and/or a variable flowrate is needed

With power control through thyristor (ART model).

**For use in**
- Technical area
- Non-ATEX environment

**Components**
The power control panels are equipped with high-quality components (Eurotherm and Schneider Electric).

**Inside the power control panel**
- Main load break switch with external handle (lockable)
- Fuse disconnect switch + fuses
- 1 x safety power contactor
- External safety loop on terminals (ARC and ART models)

**On front side**
- On/Off illuminated green switch (ART model)
- White lamp (voltage on)
- Red lamp (global default)
- Reset pushbutton (ART model)
- Emergency stop pushbutton

**Technical data**
- IP54 steel box
- Epoxy polyester surface, textured appearance 60 μm, colour Grey (RAL7035)
- 3-phase 400 V + earth (without neutral point)
- Safety transformer
- Power and dimensions see page 3
- Line safety contactor separated from temperature control loop
- The PID controllers and electronic thermostats are equipped with a factory-set measurement input which can be reconfigured by the user:
  - PT100 range from -200 to +200°C
  - TC J, range from 0 to +450°C
  - TC K, range from 0 to +1200°C
- Wall stand included
- Heating element connection through to terminal block, cable glands included
- Possibility to install remote emergency stop and On/Off switches
- Available information on any potential free terminal:
  - On/Off status
  - Global Default
  - Emergency stop

All our power control panels comply with IEC-EN-61639 / IEC-EN-60364 / IEC-EN 60204 standards and 2014/35/UE, CE directive (low voltage).
Mechanical contactor associated with electromechanical thermostat (On/Off) and/or external overtemperature controller

<table>
<thead>
<tr>
<th>Reference</th>
<th>Max. rated power (KW)</th>
<th>Dimensions (mm)</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARS 004</td>
<td>3.5</td>
<td>400 300 200</td>
<td>10</td>
</tr>
<tr>
<td>ARS 008</td>
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<tr>
<td>ARS 085</td>
<td>85.00</td>
<td>800 600 250</td>
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</table>

Mechanical power contactor associated with self-tuning PID controller

<table>
<thead>
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<th>Reference</th>
<th>Max. rated power (KW)</th>
<th>Dimensions (mm)</th>
<th>Weight (Kg)</th>
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<tbody>
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<tr>
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<tr>
<td>ARC 085</td>
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<td>800 600 250</td>
<td>55</td>
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</table>

Static contactor (Thyristor) associated with self-tuning PID controller

<table>
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<th>Max. rated power (KW)</th>
<th>Dimensions (mm)</th>
<th>Weight (Kg)</th>
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<td>ART 085</td>
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</tbody>
</table>

Options

For all models
- Projecting roof or eyelet for handling

For ARC and ART model
- External safety loop on terminals
- Electronic thermostat security controller
- 2-wire RS485 com link on PID controller

For power control panels connected to ATEX heaters: 30 mA circuit breaker
## Power Control Panels
### Standard Range

### Enquiry form

**1 Type of power control panel**
- ARS: Mechanical power contactor
- ARC: PID controller + mechanical power contactor
- ART: PID controller + static contactor

**2 Rated power**
- 004: 3.50 KW
- 008: 8.00 KW
- 013: 13.00 KW
- 023: 23.00 KW
- 035: 35.00 KW
- 047: 47.00 KW
- 064: 64.00 KW
- 085: 85.00 KW

**3 Type of electrical protection**
- F: Fuses
- D: Circuit breaker (for power control panels connected to ATEX heaters)

**4 Type of sensor on PID controller**
- X: Without
- 1: TC K sensor
- 2: TC J sensor
- 3: PT100 sensor

**5 RS485 com link**
- X: Without
- Y: With

**6 Electronic safety switch**
- X: Without
- 1T: 1 safety switch
- 2T: 2 safety switches
- 3T: 3 safety switches

**7 Type of sensor on the safety switch**
- X: Without
- 1: TC K sensor
- 2: TC J sensor
- 3: PT100 sensor

**8 Documentation language**
- ENG: English
- FRA: French
- GER: German
- ITA: Italian
- SPA: Spanish

**Option 1: Accessories**
- X: Without
- A: Projecting roof
- J: Eyelets for handling

**Option 2: Factory set-up**
- X: No
- Y: Yes

Please send us the code obtained by selecting the corresponding fields.

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