2200e
MODELS

Ideal for
• extrusion with optimised fan, or water cooling algorithms
• ovens and furnaces
• cold stores

Specifications
Dimensions:
Model 2216e:
48W x 48H x 103Dmm
Model 2208e:
48W x 96H x 103Dmm
Model 2204e:
96W x 96H x 103Dmm

Control modes:
PID or On/Off or motorised valve

Supply voltages:
85-264Vac, 10.0watts max.

Operating ambient:
0-55°C, 0-90%RH non-condensing

Inputs:
See sensor inputs in the configuration coding

Output ratings:
Relay: 2A, 284Vac resistive
Logic: 18Vdc, 20mA
Triac: 1A, 284Vac resistive
DC: Isolated 0-20mA, at 12Vdc

Panel sealing:
IP65, plug-in from front panel

PID Temperature Controllers

Available in 1/16, 1/8 and 1/4 DIN panel sizes the 2200e series are configurable for PID, On/off or motorised valve control - satisfying both electrical and gas heating applications. Self-tuning is included to optimise control performance.

Modular heating and cooling outputs are provided, as well as a choice of one or two alarm relay outputs. The 1/8 and 1/4 DIN units have two digital inputs to select auto/manual transfer, standby mode, second setpoint or alarm acknowledge. The 1/4 DIN model 2204e has an additional 10 amp high current output option.

Digital communications with industry standard protocols including Modbus® and DeviceNet® are available for easy connection to supervisory control and data logging systems.

Simple heat treatment profiles can be programmed using the internal ramp generator and dwell timer.

Abolish ammeters by using Eurotherm’s advanced load current monitoring facility. Heater current may be displayed and also open or short circuit faults detected.

Rear terminal connections

Model 2216e

Model 2208e/2204e

The 10A output for the Model 2404e is wired to additional terminals 4A through to 6D.
Ordering codes

Hardware coding

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Function</th>
<th>Supply Voltage</th>
<th>Output 1</th>
<th>Output 2</th>
<th>Output 3</th>
<th>Output 4</th>
<th>Comms</th>
<th>Manual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2216-48x48mm unit</td>
<td>VH</td>
<td>85-264Vac</td>
<td>0-10V</td>
<td>10V</td>
<td>0-10V</td>
<td>0-10V</td>
<td>0-10V</td>
<td>Manual</td>
</tr>
<tr>
<td>2208-48x48mm unit</td>
<td>VH</td>
<td>85-264Vac</td>
<td>4-20mA</td>
<td>4-20mA</td>
<td>4-20mA</td>
<td>4-20mA</td>
<td>4-20mA</td>
<td>Manual</td>
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</tbody>
</table>

Table A: DC retransmission

<table>
<thead>
<tr>
<th>First character</th>
<th>Second character</th>
<th>DC control (Isolated)</th>
<th>Valve raise output</th>
<th>Heating output</th>
<th>Alarm unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>7</td>
<td>2AE</td>
<td>M1</td>
<td>RH</td>
<td>RH</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>2AM</td>
<td>M2</td>
<td>RC</td>
<td>RC</td>
</tr>
<tr>
<td>0</td>
<td>4</td>
<td>2FM</td>
<td>L1</td>
<td>RH</td>
<td>RH</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>2YM</td>
<td>L1</td>
<td>RC</td>
<td>RC</td>
</tr>
</tbody>
</table>

Model Number

Output 1: Not fitted
Output 2: Relay: 2-pin
Output 3: Fitted unconfigured
Output 4: Cooling output

Supply Voltage: VH 85-264Vac

Configuration coding (optional)

Sensor Input | Setpoint Min | Setpoint Max | Display Units | Digital Input 1 | Digital Input 2 | Control | Options | Power | Cooling |
|-------------|-------------|--------------|---------------|----------------|----------------|---------|---------|-------|---------|

Digital Input 1 & 2

Digital Input 3

Options

Control action: Reverse acting (std)
Option: Direct acting
Power feedback: XX
Cooling options: XX

Note 1. PDS heater break detect will transmit the power demand to a TE10S Solid State Relay and read back a heater break alarm.

Note 2. PDS current monitoring will transmit the power demand signal to a TE10S Solid State Relay and read back load current and open and short circuit alarms.

Note 3. Setpoint limits: Include the decimal position required in the displayed value. Up to one for temperature inputs, up to two for process inputs.

Note 4. An external 1% current sense resistor is supplied as standard. If greater accuracy is required, a 0.1% 2-40mA can be ordered as part no. SUXBK24931.

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http://www.eurotherm.co.uk

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