Temperature Controllers

E5CB

Ideal for heater control, these Temperature Controllers offer the highest control performance at surprisingly low cost!

» Full size
» Easy to Read with One of the Largest Character Displays Anywhere.
» Easily Visible from a Distance

» Reliable features include high controllability and a 3-year warranty.
**The New Concept**

**Temperature Controllers**

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**Visibility**

- **Visible Display**
- **Short Body**
- **Many Other Useful Features**

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**E5CB**

**The New Concept Temperature Controllers**

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**Reliability**

- **Control**
- **Reliability that meets your requirements with a 3-year warranty.**

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**Simple**

- **Optimum Heater Control and Fewer Parameters for Simple Setup.**
- **Auto-tuning starts instantly by pressing the NTLPxKEY W Key during PID control.**
- **Eight Different Models Available. Selection Time Is Reduced.**

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**Visibility**

- **One of the world’s largest display character sizes enhances visibility at work site.**
- **Panel display is enhanced as a result of specialized heater control, and one of the world’s largest PV display character sizes for 48×48-mm temperature controllers is provided: 16.2 mm × 4 digits. Easy status confirmation from a distance improves workability.**

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**Short Body**

- **Reduces Control Panel Depth**
- **A depth of 60 mm beyond the mounting surface is achieved by an approximate 23% reduction in comparison to our previous models. Space-saving design for depth beyond the front surface.**

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**Many Other Useful Features**

- **Settings can be made in your office prior to assembly and wiring in the control panel, and setting can be reset in your office during startup adjustments and maintenance.**
- **This is ideal for customers using many Temperature Controllers in mass-produced machines.**

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**Control Performance Plus a Low Cost! Simple Model Selection and Setup!**

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**Outstanding control and high reliability are inherited.**

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**Global Quality**

- A long-term warranty and compliance with global standards ensure reliable export of equipment.
- A 3-year warranty has been achieved for 48×48-mm Temperature Controllers. Increase the added value of your machines through the global quality achieved with the stable control performance of the E5N Temperature Controllers combined with highly demanded IP66 protection.

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**Reliability**

- **Sense of Security**
- **Stable temperature control is achieved through the same control performance as the E5N Temperature Controllers, the best-selling general-purpose temperature controllers in the world.**

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**Simple Specification**

- **Only the minimum settings required for temperature control need to be made. Setup work is reduced remarkably.**

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**Simple**

- **Eight different basic models with temperature control and one alarm output enable model selection in less time.**

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**Settings can be copied from the ThermoMini.**

- A communications conversion cable (option, sold separately: E58-CIFQ2) can be connected to the tool port on the top of the E5CB, and settings can be copied by downloading the ThermoMini free software.

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**As Easy as 1, 2, 3, GO!**

- **Full size Panel display is enhanced as a result of specialized heater control, and one of the world’s largest PV display character sizes for 48×48-mm temperature controllers is provided: 16.2 mm × 4 digits. Easy status confirmation from a distance improves workability.**

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**Settings can be made in your office prior to assembly and wiring in the control panel, and setting can be reset in your office during startup adjustments and maintenance.**

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**E5CB**

**The New Concept Temperature Controllers**

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*According to OMRON investigation, November 2010.*

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**Data can be downloaded from www.fa.omron.co.jp**

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**A communications conversion cable (option, sold separately: E58-CIFQ2) can be connected to the tool port on the top of the E5CB, and settings can be copied by downloading the ThermoMini free software.**

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**You do not need to connect a power supply to the E5CB to set it up from a personal computer.**

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**The E5CB receives the power supply required for setup from the computer through the USB bus power source. Settings can be made from ThermoMini or the front panel of the Temperature Controller without connecting the power supply to the E5CB.**

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**No Wiring to the Terminal Block**

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**The E5CB comes with a built-in tool port for easy setup and setup work is reduced remarkably.**

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**One of the World’s Largest Character Sizes**

- **Approx. 1.5 Times Larger (compared to previous models)***
- **Approx. 23% Reduction (compared to previous models)***

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**Select from Eight Basic Models.**

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For details, see the back cover.
Easy model selection and reduced intermediate inventory. Eight Different Models Are Available.

**E5CB-1**

- **R**: Relay output
- **Q**: Voltage output (for driving SSR)
- **TC**: Thermocouple input
- **D**: Resistance thermometer input
- **1**: One alarm output
- **Blank**: 100 to 240 VAC
- **2**: 24 VAC/VDC

**Output**: 2 types  ×  **Input**: 2 types  ×  **Power supply**: 2 types  =  8 Model

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**Ordering Information**

For delivery times, contact your OMRON representative.

**Power supply voltage: 100 to 240 VAC**

<table>
<thead>
<tr>
<th>Control outputs</th>
<th>Alarm output</th>
<th>Model with thermocouple</th>
<th>Model with platinum resistance thermometer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay output</td>
<td>1</td>
<td>E5CB-R1TC</td>
<td>E5CB-R1P</td>
</tr>
<tr>
<td>Voltage output (for driving SSR)</td>
<td>E5CB-Q1TC</td>
<td>E5CB-Q1P</td>
<td></td>
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</tbody>
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**Power Supply Voltage: 24 VAC/VDC**

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<td>E5CB-R1PD</td>
</tr>
<tr>
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<td>E5CB-Q1PD</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories (Order Separately)**

- Name: USB-Serial Conversion Cable
  - Model: E58-CIFQ2

**Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>W48×H48×D60 (mm)</td>
</tr>
</tbody>
</table>
| Indication accuracy | Thermocouple: 0.5%  
 Platinum resistance thermometer: 0.5% |
| Sampling period   | 250ms                               |
| Input type        | Thermocouple: K, J, T, R, or S  
 Platinum resistance thermometer: Pt100 |
| Control outputs   | Relay output: 250 VAC, 3 A  
 Voltage output: 12 VDC, 21 mA |
| Alarm output      | 250 VAC, 1 A                        |

For details, refer to the E5CB Data Sheet (Cat. No. H172-E1).

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**OMRON Corporation**

Tokyo, JAPAN

Contact: www.ia.omron.com

**Regional Headquarters**

OMRON EUROPE B.V.
Wegalaan 67-69-2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD.
No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967
Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC
One Commerce Drive Schaumburg, IL 60173-5302 U.S.A.
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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In the interest of product improvement, specifications are subject to change without notice.

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