

## Multi-point Temperature Controller

**E5ZE-8□D1□B-V2**

Controls Up to Eight Zones, Built-in DeviceNet Communications

- Applications include plastic injection and extrusion machines, and continuous temperature control processes
- DeviceNet allows the controller to communicate with a remote I/O master without programming, or communicate directly with an Omron PLC via explicit messaging
- Fast sampling rate of 0.2 s for 8 inputs
- Optional 1/4 DIN size Display Unit shows temperature and settings for each zone without using software
- 3-year warranty



## Ordering Information

### ■ TEMPERATURE CONTROLLERS

| Control points | Control method    | Control output | Heater open circuit/SSR fault detection | Part number              |                                 |
|----------------|-------------------|----------------|-----------------------------------------|--------------------------|---------------------------------|
|                |                   |                |                                         | Thermocouple             | Platinum resistance thermometer |
| 8              | Heat (See Note 1) | Voltage        | Yes (See Note 2)                        | <b>E5ZE-8AQHD1TCB-V2</b> | <b>E5ZE-8AQHD1PB-V2</b>         |
|                |                   |                | No                                      | <b>E5ZE-8AQAD1TCB-V2</b> | <b>E5ZE-8AQAD1PB-V2</b>         |
|                |                   | Current        |                                         | <b>E5ZE-8ACAD1TCB-V2</b> | <b>E5ZE-8ACAD1PB-V2</b>         |
|                | Heat and cool     | Voltage        | Yes (See Note 2)                        | <b>E5ZE-8VQHD1TCB-V2</b> | <b>E5ZE-8VQHD1PB-V2</b>         |
|                |                   |                | No                                      | <b>E5ZE-8VQAD1TCB-V2</b> | <b>E5ZE-8VQAD1PB-V2</b>         |
|                |                   | Current        |                                         | <b>E5ZE-8VCAD1TCB-V2</b> | <b>E5ZE-8VCAD1PB-V2</b>         |

- Note: 1. The output operation can be switched to provide cooling control.  
 2. Models are available without the Heater open circuit/SSR fault detection functions.  
 3. Number of connectable units will be limited according to remote I/O points at host system.

### ■ ACCESSORIES (ORDER SEPARATELY)

| Description                                                                    | Specifications                                                                                                                                | Part number                |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Display unit shows settings, allows programming without software; 1/4 DIN size | RS-232C connection; 100 to 240 VAC, 50/60 Hz supply voltage                                                                                   | <b>E5ZD-SDL1 AC100-240</b> |
|                                                                                | RS-232C connection; 24 VDC supply voltage                                                                                                     | <b>E5ZD-SDL1 DC24</b>      |
|                                                                                | 1.5 m length cable from E5ZE to Display Unit, RS-232C with 25-pin connector                                                                   | <b>ES100-CT022-202</b>     |
|                                                                                | 1.5 m length cable from E5ZE to Display Unit, RS-232C with 9-pin connector                                                                    | <b>ES100-CT023-202</b>     |
| Current transformer; order only if using heater burnout alarm function         | 50 A load, 5.8 mm hole dia.                                                                                                                   | <b>E54-CT1</b>             |
|                                                                                | 120 A load, 12 mm hole dia.                                                                                                                   | <b>E54-CT3</b>             |
| Software                                                                       | For setup and monitoring                                                                                                                      | <b>SYS-CONFIG V2.0</b>     |
| I/O cable to E5ZE                                                              | 2 m length cable connects XW2B-20G4 or XW2B-20G5 screw terminals for control and current transformer inputs and alarm outputs; order 3 cables | <b>E5ZE-CBL200</b>         |
| DeviceNet connectors                                                           | Color-coded terminals assure correct wiring; plugs into DeviceNet port; order 2                                                               | <b>XW4B-05C1-H1-D</b>      |
|                                                                                | One-branch, T-branch tap with three connectors                                                                                                | <b>DCN1-1C</b>             |
|                                                                                | Three-branch, T-branch tap with five connectors                                                                                               | <b>DCN1-3C</b>             |
|                                                                                | Terminal block with terminating resistor: 121 Ω                                                                                               | <b>DRS1-T</b>              |

# Specifications

## ■ TEMPERATURE CONTROLLER

### Ratings

|                                 |                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated voltage                   |                                                | 24 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Permissible voltage fluctuation |                                                | 85 to 110% of rated voltage                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Power consumption               |                                                | 15 W +20% max. at 24 VDC                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sensor inputs                   | Inputs                                         | Thermocouple: K, J, T, E, L, U, N, R, S, B, W, and PL II<br>Platinum resistance thermometer: JPt 100, Pt 100                                                                                                                                                                                                                                                                                                                                                 |
|                                 | Input impedance                                | Thermocouple: 1 MΩ min.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                 | Rated current                                  | Platinum resistance thermometer: 1 mA                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Control outputs                 | Voltage output (with short-circuit protection) | ON voltage: 12 ±1.2 VDC<br>OFF voltage: 0.5 VDC max.<br>Max. load current: 30 mA/output                                                                                                                                                                                                                                                                                                                                                                      |
|                                 | Current output                                 | Rated output range: 4 to 20 mA (4 +0/-0.6 mA for 0% output, 20 +2/-0 mA for 100% output)<br>Max. load resistance: 600 Ω/output                                                                                                                                                                                                                                                                                                                               |
|                                 | Open-collector NPN output (cooling only)       | Max. voltage: 30 VDC<br>Max. load current: 50 mA/output<br>Residual voltage when ON: 2 VDC max.<br>Leakage current when OFF: 1 mA max.                                                                                                                                                                                                                                                                                                                       |
| Alarm outputs                   |                                                | Temperature alarms: Two outputs: alarm 1 and alarm 2 for all outputs in each word.<br>HB alarm (heater burnout detection): One output for all outputs in each word.<br>HS alarm (SSR fault detection): One output for all outputs in each word.<br>Temperature controller error output (memory, set value, or hardware error): One output<br>All outputs are NPN open-collector outputs with a max. voltage of 30 VDC and max. load current of 50 mA/output. |
| Number of inputs                |                                                | 8 input points and 8 control points                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Setting method                  |                                                | Set by communications                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Control method                  |                                                | ON/OFF, hybrid of advanced PID and fuzzy logic control, or manual operation                                                                                                                                                                                                                                                                                                                                                                                  |
| Memory bank input               |                                                | 8 points for each control point<br>Designated through communication or memory bank designation input                                                                                                                                                                                                                                                                                                                                                         |
| Memory bank designation inputs  |                                                | With contact signal input: ON short-circuit resistance: 1 kΩ max.<br>OFF open resistance: 100 kΩ min.<br>With non-contact signal input: ON residual voltage: 2 VDC max.<br>OFF leakage current: 1 mA DC max.                                                                                                                                                                                                                                                 |
| Ambient temperature             |                                                | Operating: 0°C to 55°C (32°F to 131°F) with no icing or condensation<br>Storage: -25°C to 65°C (-14°F to 149°F) with no icing or condensation                                                                                                                                                                                                                                                                                                                |
| Ambient humidity                |                                                | Operating: 35% to 85% RH                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### Temperature Ranges

| Input                           |                    | Temperature range   |                     | Setting (See Note 1) | Minimum units |
|---------------------------------|--------------------|---------------------|---------------------|----------------------|---------------|
| Thermocouple                    | K (CA)             | -200°C to 1,300°C   | -300°F to 2,300°F   | 0                    | 1°C or 0.1°C  |
|                                 | J (IC)             | -100°C to 850°C     | -100°F to 1,500°F   | 1                    |               |
|                                 | R                  | 0°C to 1,700°C      | 0°F to 3,000°F      | 2                    |               |
|                                 | S                  | 0°C to 1,700°C      | 0°F to 3,000°F      | 3                    |               |
|                                 | T (CC)             | -200°C to 400°C     | -300°F to 700°F     | 4                    |               |
|                                 | E (CRC)            | 0°C to 600°C        | 0°F to 1,100°F      | 5                    |               |
|                                 | B                  | 100°C to 1,800°C    | 300°F to 3,000°F    | 6                    |               |
|                                 | N                  | 0°C to 1,300°C      | 0°F to 2,300°F      | 7                    |               |
|                                 | L                  | -100°C to 850°C     | -100°F to 1,500°F   | 8                    |               |
|                                 | U                  | -200°C to 400°C     | -300°F to 700°F     | 9                    |               |
|                                 | W                  | 0°C to 2,300°C      | 32°F to 4,100°F     | A                    |               |
|                                 | PL II <sup>2</sup> | 0°C to 1,300°C      | 0°F to 2,300°F      | B                    |               |
| Platinum resistance thermometer | Pt100              | -100.0°C to 500.0°C | -100.0°F to 900.0°F | 0                    |               |
|                                 | JPt100             | -100.0°C to 500.0°C | -100.0°F to 900.0°F | 1                    |               |

Note: 1. The factory setting is 0 (Type K for thermocouple input or Pt100 for platinum resistance thermometer input.)

2. Platinel is a registered trademark of Englehard Industries.

## Characteristics

|                        |                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement precision  | Thermocouple:<br>(±0.3% of the measured value or ±2°C, whichever is larger) ±1 digit max.<br>(±0.3% of the measured value or ±3.6°F, whichever is larger) ±1 digit max.<br>Platinum resistance thermometer:<br>(±0.3% of the measured value or ±0.8°C, whichever is larger) ±1 digit max.<br>(±0.3% of the measured value or ±1.5°F, whichever is larger) ±1 digit max. |
| Adjustable sensitivity | 0.0°C to 99.9°C or 0.0°F to 99.9°F (0.1° increments), valid for ON/OFF control only.                                                                                                                                                                                                                                                                                    |
| Cooling coefficient    | 0.0 to 10.0 (0.1 increments)                                                                                                                                                                                                                                                                                                                                            |
| Proportional band      | 0.0°C to 999.9°C or 0.0°F to 999.9°F (0.1° increments)<br>Cooling: cooling coefficient × proportional band                                                                                                                                                                                                                                                              |
| Integral time          | 0 to 3,999 s (1-s increments)                                                                                                                                                                                                                                                                                                                                           |
| Derivative time        | 0 to 3,999 s (1-s increments)                                                                                                                                                                                                                                                                                                                                           |
| Control cycle          | Heating or cooling: 1 to 99 s (1-s increments)                                                                                                                                                                                                                                                                                                                          |
| Sampling cycle         | Approx. 200 ms/8 words                                                                                                                                                                                                                                                                                                                                                  |
| Dead band/overlap Band | -999°C to 999°C or -999°F to 999°F (1° increments)                                                                                                                                                                                                                                                                                                                      |
| Alarm set range        | With 1° increments: -999° to 9,999° (0° to 9,999° with upper/lower limit alarms)<br>With 0.1° increments: -999.9° to 9,999.9° (0.0° to 9,999.9° with upper/lower limit alarms)                                                                                                                                                                                          |
| Fuzzy logic strength   | 0 to 99% (1% increments)                                                                                                                                                                                                                                                                                                                                                |
| Fuzzy logic scale 1    | 0.2° to 999.9° (0.1° increments)                                                                                                                                                                                                                                                                                                                                        |
| Fuzzy logic scale 2    | 0.02° to 99.99° (0.01° increments)                                                                                                                                                                                                                                                                                                                                      |
| SV protection          | Lithium battery backup                                                                                                                                                                                                                                                                                                                                                  |
| SV protection time     | 10 years min. at room temperature                                                                                                                                                                                                                                                                                                                                       |
| Insulation resistance  | 20 MΩ at 500 VDC between the FG terminal and analog input terminals                                                                                                                                                                                                                                                                                                     |
| Dielectric strength    | Leakage current of 1 mA max. between the FG terminal and analog input terminals when 500 VAC is applied for 1 min.                                                                                                                                                                                                                                                      |
| Vibration resistance   | Malfunction: 10 to 55 Hz with 15 m/s <sup>2</sup> in X, Y, and Z directions for 8 min.<br>Destruction: 10 to 55 Hz with 20 m/s <sup>2</sup> in X, Y, and Z directions for 8 min.                                                                                                                                                                                        |
| Shock resistance       | Malfunction: 150 m/s <sup>2</sup> max. 3 times each in ±X, ±Y, and ±Z directions<br>Destruction: 200 m/s <sup>2</sup> max. 3 times each in ±X, ±Y, and ±Z directions                                                                                                                                                                                                    |
| Degree of protection   | IP00                                                                                                                                                                                                                                                                                                                                                                    |
| Weight                 | Case-type Unit: 1,700 g max.                                                                                                                                                                                                                                                                                                                                            |

Note: 1. The measurement accuracy of the E5ZE used with a thermocouple B at 400°C or 750°F max. is not guaranteed. The following measurement accuracy values are applied to the E5ZE.

K and T at -100°C max. and U: ±3°C ±1 digit max.

K and T at -100°F max. and U: ±5.4°F ±1 digit max.

R, S, and W at 200°C max., and B at 1,000°C max.: ±4°C ±1 digit max.

R, S, and W at 400°F max., and B at 1,800°F max.: ±7.2°F ±1 digit max.

2. The measurement accuracy of the E5ZE used with any thermocouple is 1°C/°F. The thermocouple can be used under the following temperature ranges to increase the measurement accuracy to as high as 0.1°C/°F.

K thermocouple: 0.0 °C to 1,300.0 °C, 0.0 °F to 2,300.0 °F

T or U thermocouple: 0.0 °C to 400.0 °C, 0.0 °F to 700.0 °F

N thermocouple: 400.0 °C to 1,300.0 °C, 700.0 °F to 2,300.0 °F

J, E, L, or PLII thermocouple: Any temperature

3. Upper limit is 3000.0°C/°F when set from CompoBus/D.

## ■ DISPLAY UNIT

## Ratings

|                         |                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------|
| Supply voltage          | 100 to 240 VAC, 50/60 Hz or 24 VDC                                                    |
| Operating voltage range | 85% to 110% of rated supply voltage                                                   |
| Power consumption       | Approx. 8 VA at 100 VAC to 12 VA at 420 VAC; approx. 5 W at 24 VDC                    |
| Setting method          | Digital setting via Up and Down keys                                                  |
| Display method          | LED character heights: PV: 15 mm (red); SV: 11 mm (green); UNIT/CH/BK: 11 mm (orange) |
| Other functions         | Key protection<br>Display group selection<br>Display scan function                    |

**Characteristics**

|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| Sampling period      | 500 ms, 1 s (selectable)                                                                 |
| Enclosure ratings    | Front panel: IP50<br>Rear case: IP20<br>Terminals: IP00                                  |
| Vibration resistance | Malfunction: 2 to 55 Hz, 19.6 m/s <sup>2</sup> for 10 min each in X, y, and Z directions |
| Shock resistance     | Malfunction: 196 m/s <sup>2</sup> for 3 times in each of 6 directions                    |
| Ambient temperature  | -10°C to 55°C (4°F to 131°F) with no icing                                               |
| Ambient humidity     | 35% to 85% RH                                                                            |
| Weight               | Approx. 450 g                                                                            |

**■ COMMUNICATIONS****Conforming to DeviceNet Communications Protocol**

For details, refer to the *E5ZE-8 Multi-point Temperature Controller Communications Manual (H114)*.

|                         |                                                                                                                                                  |                                            |                           |                                 |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------|---------------------------------|
| Connection method       | Multi-drop or T-branching (See Note 1)                                                                                                           |                                            |                           |                                 |
| Baud rate               | 500/250/125 kbps                                                                                                                                 |                                            |                           |                                 |
| Communications media    | Dedicated 5-wire cable (with 2 communications wires, 2 power wires, and 1 shield wire) with XW4B-05C1-H1-D or equivalent connectors on each end. |                                            |                           |                                 |
| Communications distance | <u>Baud rate</u>                                                                                                                                 | <u>Maximum network length (See Note 2)</u> | <u>Branch line length</u> | <u>Total branch line length</u> |
|                         | 500 kbps                                                                                                                                         | 100 m max. (See Note 3)                    | 6 m max.                  | 39 m max.                       |
|                         | 250 kbps                                                                                                                                         | 250 m max. (See Note 3)                    | 6 m max.                  | 78 m max.                       |
|                         | 125 kbps                                                                                                                                         | 500 m max. (See Note 3)                    | 6 m max.                  | 156 m max.                      |
| Remote I/O points       | IN: 14 / OUT: 9                                                                                                                                  |                                            |                           |                                 |
| Error control           | CRC error and node address duplication check                                                                                                     |                                            |                           |                                 |

Note: 1. An external terminator must be attached.

2. Indicates the distance between nodes farthest from each other.

3. The maximum network length is 100 m if a thin dedicated cable is applied to the trunk line.

**! NOTICE:** This product has been tested by ODVA's authorized Independent Test Lab and found to comply with ODVA Conformance Test Software Version 2.0-1.00.  
For the specifications of objects in details, refer to the *E5ZE-8 Multi-point Temperature Controller Communications Manual (H114)*.

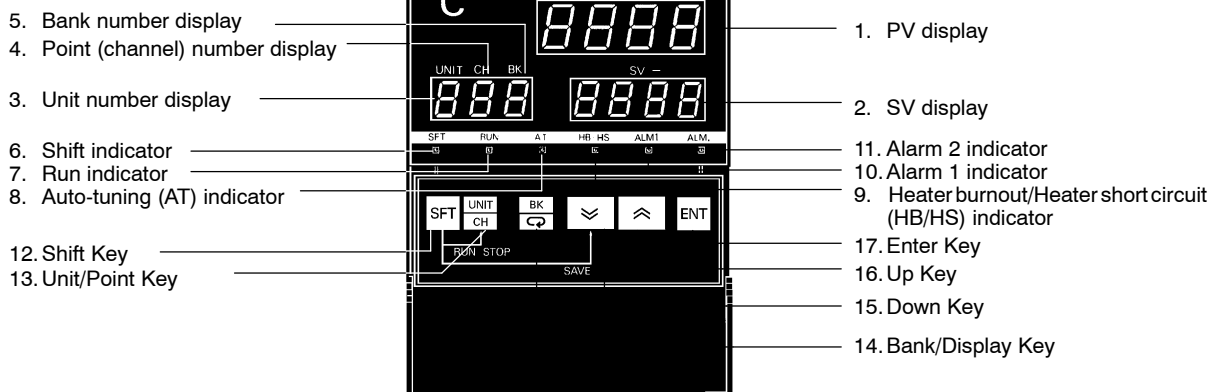
**CompoBus/D Communications Items**

|                             |                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote I/O communications   | IN: Temperature measurement (8 points), Alarms 1 and 2 status, AT status, HB alarm status, HS alarm status, and error status<br>OUT: RUN/STOP and SP (set point) (8 points) |
| FINS message communications | All read and write parameters                                                                                                                                               |

# Nomenclature

## ■ DISPLAY UNIT

### E5ZD-SDL1



## Display

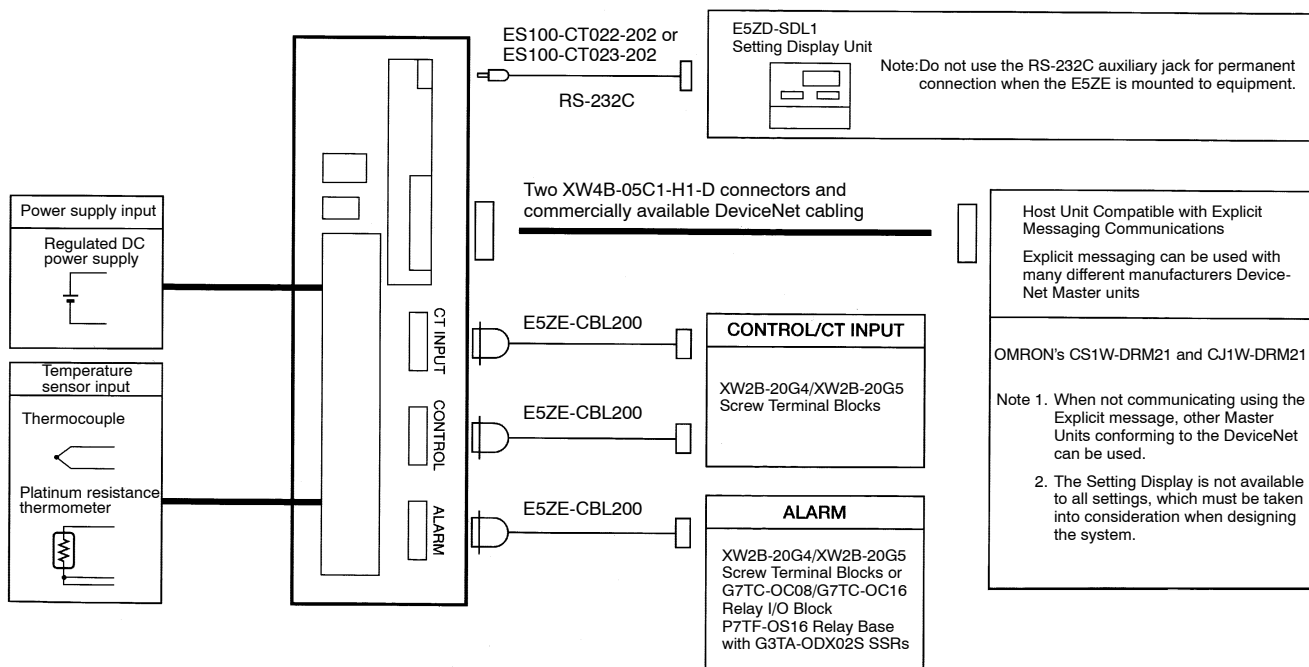
| No. | Display                                                     | Meaning                                                                                                                                                                                                                                         |
|-----|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Process Value (PV) display                                  | The measured temperature and the set item characters are displayed according to the display mode.<br>An error message is displayed if the system has an error.<br>-1 is displayed for the leftmost digit of a figure between -1,000 and -1,999. |
| 2   | Set Value (SV) display                                      | The value that has been set is displayed according to the display mode.<br>An error message is displayed if the system has an error.<br>-1 is displayed for the leftmost digit of a figure between -1,000 and -1,999.                           |
| 3   | Unit number display                                         | The unit number that has been selected is displayed.                                                                                                                                                                                            |
| 4   | Point number display                                        | The point number that has been selected is displayed.                                                                                                                                                                                           |
| 5   | Bank number display                                         | The bank number that has been selected is displayed.                                                                                                                                                                                            |
| 6   | Shift indicator                                             | Lit at the time of key shift.                                                                                                                                                                                                                   |
| 7   | Run indicator                                               | Lit when the displayed unit is being controlled.                                                                                                                                                                                                |
| 8   | Auto-tuning (AT) indicator                                  | Flashes while auto-tuning is being executed.                                                                                                                                                                                                    |
| 9   | Heater burnout/Heater short circuit (HB/HS) alarm indicator | Lit when heater burnout or heater short circuit alarm output is ON.                                                                                                                                                                             |
| 10  | Alarm 1 indicator                                           | Lit when alarm output 1 is ON.                                                                                                                                                                                                                  |
| 11  | Alarm 2 indicator                                           | Lit when alarm output 2 is ON.                                                                                                                                                                                                                  |

## Key

| No. | Key              | Meaning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12  | Shift Key        | Turns ON or OFF the shift indicator.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 13  | Unit/Point Key   | <p>Displays the next point number while the shift display is OFF. Any invalid point is skipped.</p> <p>→ 0 → 1 → 2 → 3 → ... → Maximum point → <math>\bar{a}</math>     <math>\bar{a}</math> : All points</p> <p>Displays the next unit number while the shift display is ON. <math>\bar{a}</math>, <math>\bar{b}</math>, <math>\bar{c}</math>, <math>\bar{d}</math>, <math>\bar{e}</math>, and <math>\bar{f}</math> are displayed for the 10th unit number and the succeeding unit numbers.</p> <p>→ 0 → 1 → 2 → 3 → ... → Maximum unit → <math>\bar{a}</math>     <math>\bar{a}</math> : All units</p> |
| 14  | Bank/Display Key | <p>Displays the next display mode while the shift display is OFF.</p> <p>Displays the next bank number when the shift display is lit.</p> <p>→ 0 → 1 → 2 → 3 → 4 → 5 → 6 → 7 → <math>\bar{a}</math>     <math>\bar{a}</math> : All banks</p>                                                                                                                                                                                                                                                                                                                                                             |
| 15  | Down Key         | <p>Decreases the set value within the available setting range. The set value decreases continuously if this key is pressed for 0.5 s or more.</p> <p>Note: This key does not function if the key protect switch is turned ON.</p>                                                                                                                                                                                                                                                                                                                                                                        |
| 16  | Up Key           | <p>Increases the set value within the available setting range. The set value increases continuously if this key is pressed for 0.5 s or more.</p> <p>Note: This key does not function if the key protect switch is turned ON.</p>                                                                                                                                                                                                                                                                                                                                                                        |
| 17  | Enter Key        | <p>Writes the set value to the E5ZD Setting Display Unit.</p> <p>Note: This key does not function if the key protect switch is turned ON.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Operation

## ■ SYSTEM CONFIGURATION

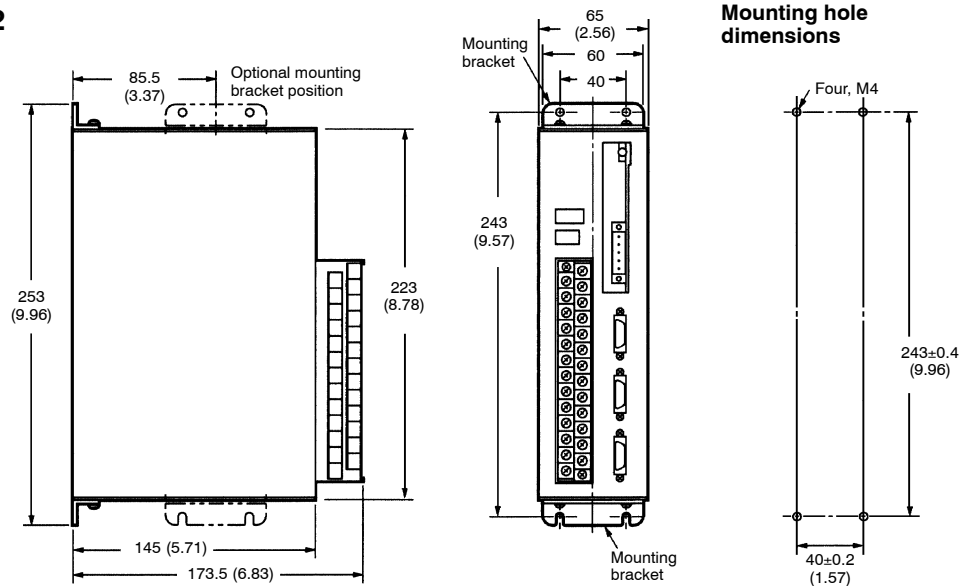
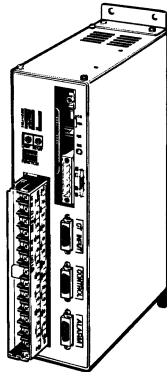
**Caution**

Be sure to use the above Units, which save wiring effort, and connection cables for the prevention of malfunctions or accidents that may be caused by mistakes in wiring.

# Dimensions

Unit: mm (inch)

## ■ E5ZE-8□D1□B-V2

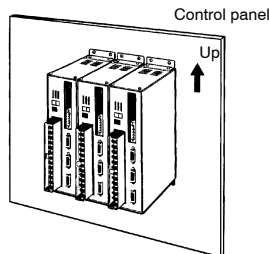


# Precautions

## ■ MOUNTING THE CONTROLLERS

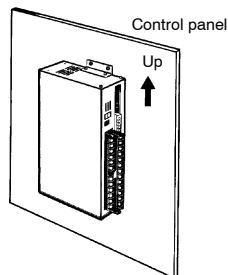
### Side-by-side, Close Mounting

Saves space and improves wiring efficiency.



### Wall Mounting

Can be mounted to places with limited depth.



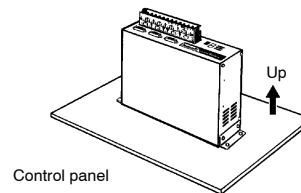
### General Mounting Precautions

The side of the E5ZE with the terminal block and connectors must not face up, otherwise operating errors may result.

Prepare four M4 screws to mount the E5ZE to control panels. Use flat washers and spring washers with screws to mount the E5ZE to control panels so that the screws will not loosen.

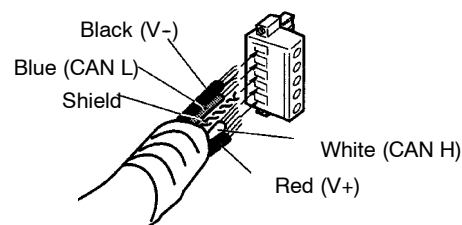
The mounting brackets must be attached to the E5ZE with the four M3 x 6 screws provided with the E5ZE and each of the screws should be tightened to a torque of 0.43 to 0.58 N • m, or 4.4 to 5.9 kgf • cm.

Do not mount as shown in the following diagram.



## ■ WIRING DEVICENET CONNECTORS

The following diagram shows how the DeviceNet connector XW4B-05C1-H1-D is wired. Multi-drop connections cannot be used with this connector. The connector is color-coded to match the insulating sheath of each conductor.



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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**OMRON**<sup>®</sup>**OMRON ELECTRONICS LLC**One East Commerce Drive  
Schaumburg, IL 60173**1-800-55-OMRON****OMRON ON-LINE**Global - <http://www.omron.com>USA - <http://www.omron.com/oei>Canada - <http://www.omron.com/oci>**OMRON CANADA, INC.**885 Milner Avenue  
Scarborough, Ontario M1B 5V8**416-286-6465**