


PRECAUTIONS


This section provides general precautions for using the E5ZE Multipoint Temperature Controller and related devices.

The information contained in this section is important for the safe and reliable application of the E5ZE Multipoint Temperature Controller. You must read this section and understand the information contained before attempting to set up or operate an E5ZE Multipoint Temperature Controller.

- 1 General Safety Precautions
- 2 Operating Environment Precautions
- 3 Application Precautions

1 General Safety Precautions


 **WARNING** Do not attempt to disassemble, apply pressure, distort, subject to temperatures of 100°C or more, or throw the E5ZE into fire. A lithium battery is built into the E5ZE and any attempt to any of the above may result in fire, explosion, or combustion.


 **WARNING** Do not attempt to disassemble, modify, or repair the E5ZE. Any attempt to do so may result in malfunction, fire, or electric shock.


 **Caution** Do not use any terminal that is marked “Don’t use.”

2 Operating Environment Precautions


 **Caution** Be sure to check polarity when connecting the terminals.

 **Caution** Do not install power lines or high-tension lines alongside lines connected to the E5ZE to prevent the E5ZE from being influenced by inductive noise. Install lines connected to the E5ZE through an independent conduit or use a shielded cable for the lines to protect them from inductive noise.


 **Caution** Separate the E5ZE from devices generating a strong high-frequency, such as high-frequency welding machines, or devices that generate surge.


 **Caution** Do not operate the E5ZE in the following locations:


- Locations subject to exposure to water, oil, or chemicals.
- Locations subject to corrosive or flammable gases.
- Locations subject to temperatures or humidity outside the range specified in the specifications.
- Locations subject to condensation.
- Locations subject to shock or vibration.
- Locations subject to severe changes in temperature.
- Locations subject to icing.


 **Caution** Do not install the E5ZE in a location with obstructions preventing radiant heat from escaping.


3 Application Precautions


 **WARNING** Make sure that no metal particles or wire chips are accidentally left in the product. Doing so may result in malfunction, fire, or electric shock.


 **WARNING** Install a separate alarm to prevent the temperature from increasing excessively if the E5ZE malfunctions. Insufficient safety precautions may cause serious accidents if the temperature control malfunctions.

-  **Caution** Tighten the screws on the terminal block to the torque specified in the manual. Loose screws may result in burning or malfunction.

-  **Caution** Do not connect loads to the E5ZE that exceed the specified ratings. Excessively large loads may result in malfunction or burning.

-  **Caution** Always use the power supply voltage specified in the manual. An incorrect voltage may result in malfunction or burning.

-  **Caution** Confirm that no adverse effects will occur in the system before attempting to perform a hardware test. Insufficient confirmation may result in unexpected operations.

-  **Caution** Make sure that all the E5ZE set values are suitable for the controlled system. Unsuitable set values may result in unexpected operations causing damage to the product or accidents.