

How to Use the Error Display

When an error has occurred, the No.1 display alternately indicates error codes together with the current display item.

This section describes how to check error codes on the display, and the actions you must take to remedy the problem.

5.Err

Input error

Meaning

Input is in error.

Action

Check the wiring of inputs, disconnections, and shorts, and check the input type.

Operation at error

For control output functions, the manipulated variable matched to the setting of the “MV at PV error” parameter (level 2 mode) is output. Alarm output functions are activated as if the upper limit is exceeded. Program operation is continued.

E111

Memory error

Meaning

Internal memory operation is in error.

Action

First, turn the power OFF then back ON again. If the display remains the same, the E5CK-T controller must be repaired. If the display is restored to normal, then a probable cause can be external noise affecting the control system. Check for external noise.

Operation at error

Control output functions turn OFF (2 mA max. at 4 to 20 mA output, and output equivalent to 0% in case of other outputs). Alarm output functions turn OFF.

E333

A/D converter error

Meaning

Internal circuits are in error.

Action

First, turn the power OFF then back ON again. If the display remains the same, the E5CK-T controller must be repaired. If the display is restored to normal, then a probable cause can be external noise affecting the control system. Check for external noise.

Operation at error

Control output functions turn OFF (2 mA max. at 4 to 20 mA output, and output equivalent to 0% in case of other outputs). Alarm output functions turn OFF. Program operation is stopped.



Calibration data error

This error is output only during temperature input, and is displayed for two seconds when the power is turned ON.

Meaning

Calibration data is in error.

Action

E5CK-T must be repaired.

Operation at error

Both control output functions and alarm output functions operate. However, note that readout accuracy is not assured.



Display range over

Meaning

Though not an error, this is displayed when the process value exceeds the display range when the control range (setting range $\pm 10\%$) is larger than the display range (-1999 to 9999).

- When less than “-1999” [C C C C]
- When greater than “9999” [D D D D]

Operation

Control continues, allowing normal operation.



About Errors That Occur During Motor Calibration

If an error occurs during motor calibration, [Err] is displayed on the No.2 display. The following causes of errors are possible:

- Control motor or potentiometer malfunction
- Incorrect control motor or potentiometer wiring
- Potentiometer is not connected