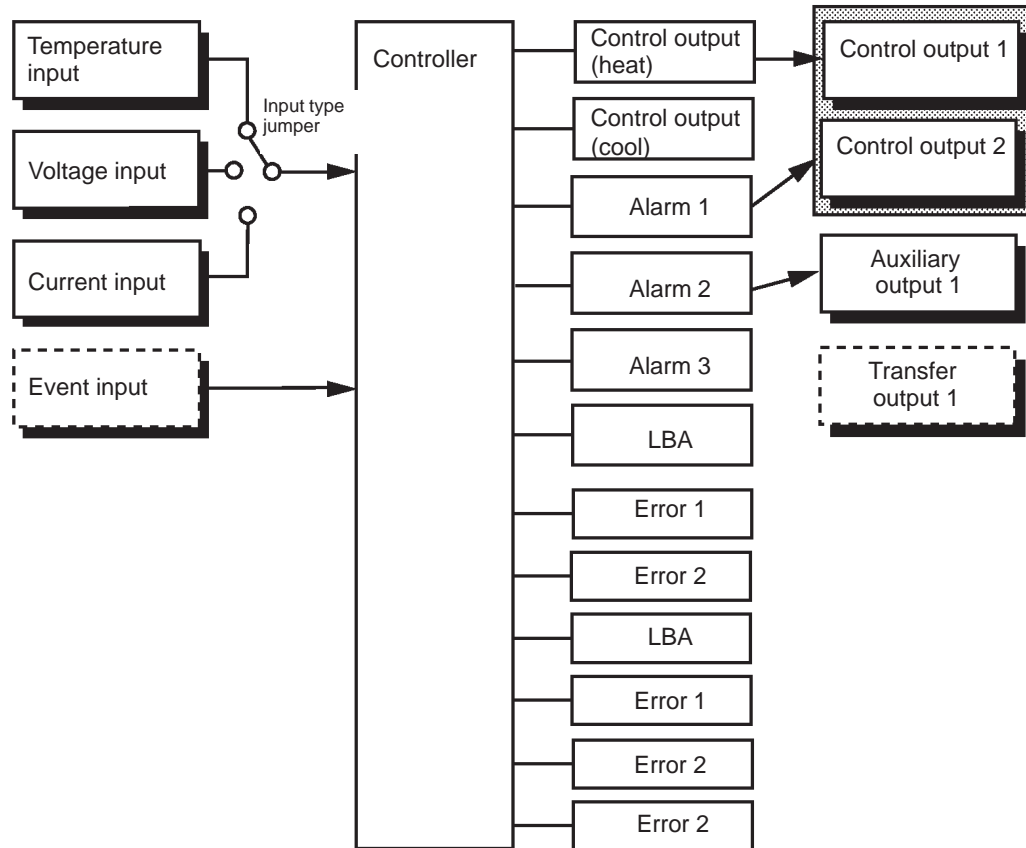


# Input and Output



## Input

The E5CK-T supports the following inputs:

Temperature input, Current input, Voltage input, and Event input.

### Temperature input/Voltage input/Current input

- Only one of temperature input, current input and voltage input can be selected and connected to the controller. In the above figure, temperature input is selected.
- The following input sensors can be connected for temperature input:  
Thermocouple: K, J, T, E, L, U, N, R, S, B, W, PLII  
Platinum resistance thermometer: JPt100, Pt100
- The following currents can be connected for current input:  
4 to 20 mA, 0 to 20 mA
- The following voltages can be connected for voltage input:  
1 to 5 VDC, 0 to 5 VDC, 0 to 10 VDC

### Event input

Add on the input unit (E53-CKB) when using event input. You can select from the following five event inputs:

Run/Reset, Auto/Manual, Hold/Hold Cancel, Advance, Pattern

## Output

The output functions of the E5CK-T do not operate for five seconds after the E5CK-T is turned ON.

The E5CK-T supports the following five outputs:

- Control output 1
- Control output 2
- Auxiliary output 1
- Transfer output

When using control output 1 and 2, set the output unit (sold separately). Nine output units are available to suit the output circuit configuration.

When using transfer output, add on the communication unit (E53-AKF).

### Output assignments

- The E5CK-T supports the following twelve output functions:  
Control output (heat), Control output (cool), Alarms 1 to 3, LBA,  
  
Time Signals 1 and 2, Program End, Stage Output,  
Error 1 (input error), Error 2 (A/D converter error)
- Assign these output functions to control output 1, control output 2 and auxiliary output 1.
- Only control output (heat), control output (cool), alarms 1 to 3 and LBA can be assigned to control outputs 1 and 2. Only alarms 1 to 3, LBA, error 1 and error 2 can be assigned to auxiliary output 1.  
In the example on the previous page, "control output (heat)" is assigned to "control output 1", "alarm 1" is assigned to "control output 2", and "alarm 2" is assigned to "auxiliary output 1". Accordingly, the configuration is such that heating control output is connected to control output 1, and alarm output is connected to control output 2 and auxiliary output 1.
- When the control is heating and cooling control, assign "control output (cool)" to "control output 1" or "control output 2".

### Transfer output

- The E5AK-T supports the following four transfer outputs:  
Present SP, Process value, Heating side manipulated variable,  
Cooling side manipulated variable
- These transfer outputs can be output after being scaled. Setting of an upper limit value smaller than the lower limit value is allowed, so reverse scaling can also be carried out.