

About Calibration

The E5EK-T controller is calibrated before shipment from the factory. So, the user need not calibrate the E5EK-T controller during regular use.

However, if the E5EK-T controller must be calibrated by the user, use the parameters provided for the user to calibrate temperature input, analog input (voltage, current) and transfer output. In this case, note that the results of calibration will not be assured.

Also, note that calibration data is updated to the latest value each time that the E5EK-T controller is calibrated. Calibration data set before shipment from the factory cannot be returned to after calibration by the user.

Calibrating inputs

The input type selected in parameters is the item to be calibrated. The E5EK-T is provided with the following four calibration parameters:

- Thermocouple
- Platinum resistance thermometer
- Current input
- Voltage input

Two parameters are provided for thermocouple and voltage input.

Calibrating transfer output

Transfer output also can be calibrated when the communications unit (E53-AKF) is added on.

Registering calibration data

When calibrating each item, the calibration data is temporarily registered. This data can be registered as final calibration data only when all items have been newly calibrated. So, all items must be temporarily registered when the E5EK-T controller is calibrated.

When registering data, information regarding whether or not calibration has been carried out is also registered.

To calibrate these items, the user must prepare separate measuring devices and equipment. For details on handling these measuring devices and equipment, refer to the respective manuals.

For details, see Chapter 7 Calibration.

