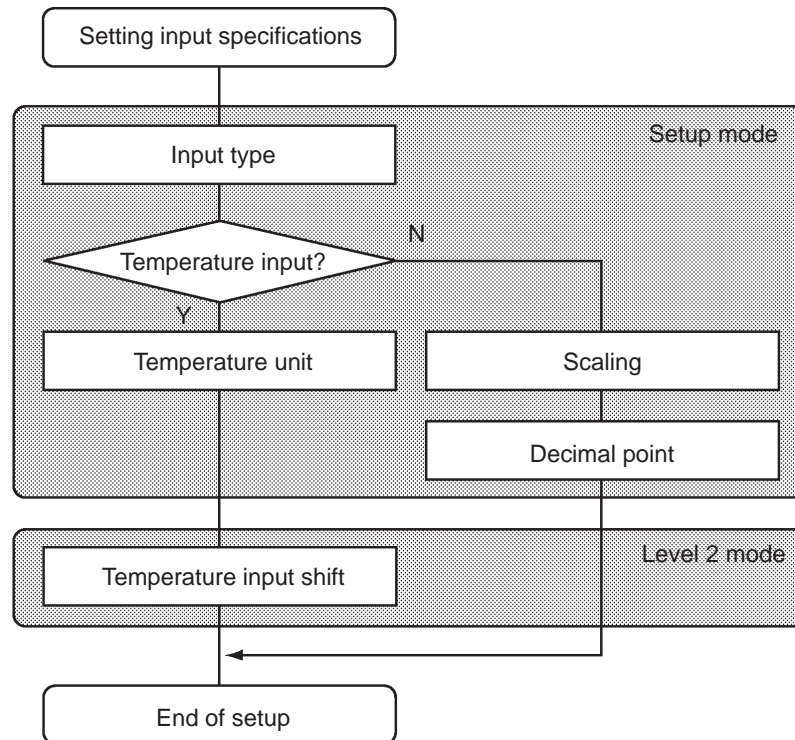


Setting Input Specifications



- With temperature input, scaling and decimal point parameters need not be set as this information is determined by the input (sensor) type. (These parameters are not displayed.) Note that temperature unit and temperature input shift parameters need to be set.
- With analog input, the “scaling upper limit”, “scaling lower limit” and “decimal point” parameters need to be set.

Input type



- Set the type No. (0 to 21) in the “input type” parameter (Set up mode). The factory setting is “2: K1 (thermocouple).”
- When you set the “input type” parameter, be sure to check the setting of the input type jumper. If the jumper setting does not match the type of input connected to the input terminal, reset the input type jumper.
- For details on input types, setting ranges and setting of the input type jumper, see Chapter 5 Parameter/Setup mode/Input type on Section 5–8 Setup Mode.
- For details on input types and setting ranges, see Section 5–8 Setup Mode.

Temperature input

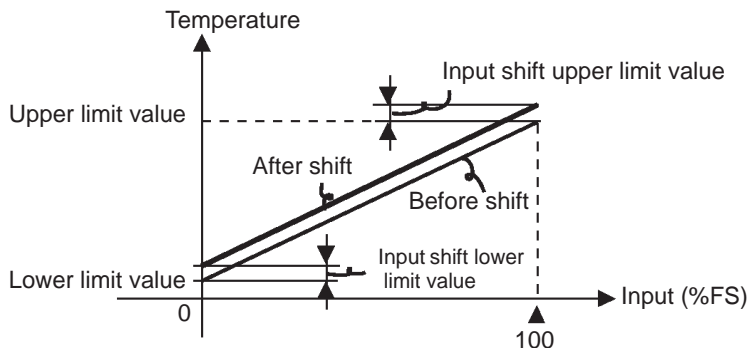
Temperature unit



Temperature input shift



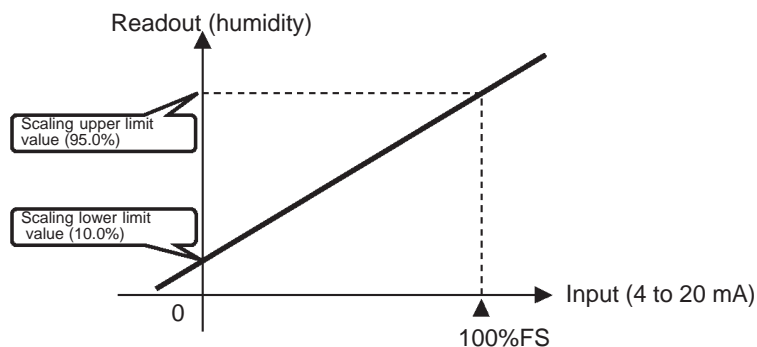
- To switch the temperature unit from “°C” to “°F” when input is temperature, switch the “°C/°F selection” parameter (setup mode) from “ $^{\circ}\text{C}$ ” to “ $^{\circ}\text{F}$ ”.
- When input is temperature input, the upper and lower limit values of the sensor can be shifted linearly. For example, if both the upper and lower limit values are shifted by 1.2°C, the process value (before shift) is regarded as 201.2°C after shift when input is 200°C before shift.
- To set input shift, set shift values in the “input shift upper limit” and “input shift lower limit” parameters (level 2 mode).



Analog input



- When the analog input (the voltage input and current input) is selected, scaling matched to the control is required.
- The “scaling upper limit”, “scaling lower limit” and “decimal point” parameters (setup mode) are used for scaling. These parameters cannot be used when the temperature input type is selected.
- The “scaling upper limit” parameter sets the physical quantity to be expressed by the upper limit value of input, and the “scaling lower limit” parameter sets the physical quantity to be expressed by the lower limit value of input. The “decimal point” parameter sets the number of digits past the decimal point.
- The following figure shows a scaling example of 4 to 20 mA input. After scaling, the humidity can be directly read. In this case, the “decimal point” parameter is set to “1”.



Setting Example

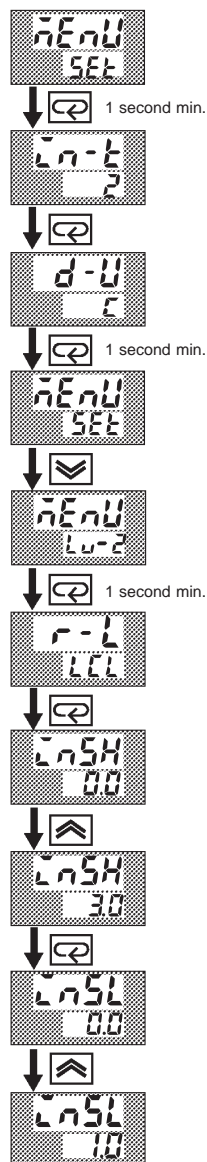
In this example, let's check the input type and temperature units, and shift the lower limit by 1°C and the upper limit by 3°C.

“input type” = “2: K1”

“temperature unit” = “°C”

“input shift upper limit” = “3.0”

“input shift lower limit” = “1.0”



- (1) Select the menu display, and select “ **SET** : setup mode” using the or keys. For details on selecting the menu display, see Section 1–4 Parameters and Menus.
- (2) Press the key for one second minimum to enter the setup mode. The top parameter in the setup mode “ **Input type** ” is displayed. This parameter is factory-set to “2: K1”.
- (3) Press the key to fix the set value. The display changes to “ **d-U** : °C/°F selection” parameter. This parameter is factory-set to “C : °C”.
- (4) Select the menu display, and select “ **L2** : level 2 mode” using the or keys.
- (5) Press the key for one second minimum to enter the level 2 mode. The top parameter in the level 2 mode [**L**] (“local/remote” parameter) is displayed.
- (6) Press the key until [**Input shift upper limit**] (“input shift upper limit” parameter) is selected. This parameter is factory-set to “0.0”.
- (7) Press the key until “3.0” is displayed.
- (8) Press the key until [**Input shift lower limit**] (“input shift lower limit” parameter) is selected. This parameter is factory-set to “0.0”.
- (9) Press the key until “1.0” is displayed. This sets the “input shift upper limit” and “input shift lower limit” values.