

7.1.1 Setting the Range

(1) Setting method

With a multirange system, setting the range for each channel is possible.

Use the Δ key to shift the mode ① to ⑩ shown in the Table below.

Set the range from the following input signals. (mode ① to ③)

DC voltage	: $\pm 10, 0$ to $20, 0$ to $50, \pm 200$ mV DC, $\pm 1, 0$ to $5, \pm 10$ V DC
DC current	: 4 to 20 mA DC (External shunt resistor: 250 Ω)
Thermocouple	: B, R, S, K, E, J, T, C, Au-Fe, N, PR40-20, PLII, U, L
Resistance temperature detector	: Pt100, JPt100

Set scaling, decade, square root, interchannel sum/difference/average. (mode ④ to ⑨)

Unnecessary channels can be skipped. (mode ⑩)

Setting	Channel	Mode	Key
RANGE	CH 1 CH 2 CH 3 CH 4 CH 5 CH 6 Setting for all channels	① VOLt (Voltage, Current)	Δ key
		② tC (Thermocouple)	↓
		③ rtd (Resistance-temperature detector)	↓
		④ SCALE (Scaling)	↓
		⑤ SQRt (Square root)	↓
		⑥ dECAd (Decade)	↓
		⑦ dELt (Difference)	↓
		⑧ SIGn (Sum)	↓
		⑨ AEAR (Average)	↓
		⑩ SkIP (Skip)	↓

[Note]

A decimal point position can be arbitrary setup only in the "scaling" and "square root" modes. When you want to alter the decimal point position in Voltage/Current/Thermocouple/Resistance temperature detector input set it in the "scaling" mode. To fix the decimal point position, set as follows.

Input	Decimal Places	Input	Decimal Places
mV	2nd place * * . * *	Thermocouple	1st place * * * . *
$\pm 1, 0 \sim 5$ V	3rd place * * . * * *	RTD	1st place * * * . *
± 10 V	2nd place * * . * *	± 200 mV DC	1st place * * * . *
mA	2nd place * * . * *		

(3) SCALE(Scaling)

Changes the input of VOLT, TC and RTD into a quantity.

Setting the unit is possible.(See 7.1.3 on page 58)

Example) When setting the voltage of 0 to 40 mV and scale of 000.00 to 100.00 for Channel 1.

Display	Operation keys	Description
		Hold down the "MENU" key for 3 seconds or more to enter the setup mode. Use the Δ key to display "r-RANGE". Press the "ENT" key.
		Use the Δ key to select the channel you want to set. Press the "ENT" key.
		Use the Δ key to select "SCALE". Press the "ENT" key.
		Use the Δ key to select "VOLT". Press the "ENT" key.
		Use the Δ key to select a range(50 mV). Press the "ENT" key.
		Use the Δ key to select a numeral. Use the \triangleright key to shift a digit. Press the "ENT" key.
(Zero input value)		

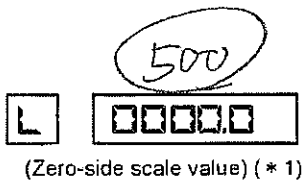
[Note]

When input TC and RTD, set the Zero input value equal to the Zero-side scale value.
But, set a decimal point position to the standard position. (* 1:next page)

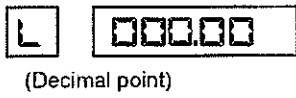
		Use the Δ key to select a numeral. Use the \triangleright key to shift a digit. Press the "ENT" key.
(Span input value)		

[Note]

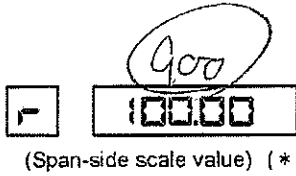
When input TC and RTD, set the Span input value equal to the Span-side scale value.
But, set a decimal point position to the standard position. (* 2:next page)



Use the Δ key to select a numeral.
Use the \triangleright key to shift a digit.



Press the \triangleright key again in the lowest digit(right end) to blink a decimal point. Use the Δ key to select a decimal point position. Press the "ENT" key.



Use the Δ key to select a numeral.
Use the \triangleright key to shift a digit. Press the "ENT" key.



Press the "ENT" key. Setting is completed.
To return to the user mode, hold down the "MENU" key for 3 seconds or more.

[Note]
An entry of an incorrect numeral displays errors E Err21 or E Err24 or E Err25 .
Press the "ENT" key and re-enter a correct numeral.