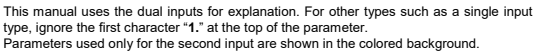
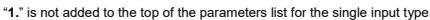




For detailed handling procedures and key operations, refer to separate **FZ110/FZ400/FZ900 Instruction Manual**.
The manual can be downloaded from the official RKC website:
<https://www.rkcinst.co.jp/english/download-center/>

For a dual input model, the same parameter may exist in both Input 1 and Input 2. "1." or "2." is added to the top of the parameters for identification.



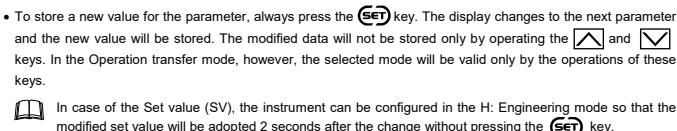
This part is not displayed on the single input type.

Parameter shown only on the dual input type

- The flashing digit indicates which digit can be set. Press **◀MODE** key to go to a different digit. Every time the shift key is pressed, the flashing digit moves as follows.

The diagram shows an 8-digit display with labels 'AREA' and 'SV' above the first two digits. The seventh digit from the left is highlighted with a dashed border and labeled 'Flashing' with an arrow. Arrows indicate the sequence of digits from left to right.

- The following is also available when changing the set value



- In case no operation is performed within 60 seconds after the change of the setting, the mode will return to A: Monitor and SV setting mode. The modified data will not be registered in this case.

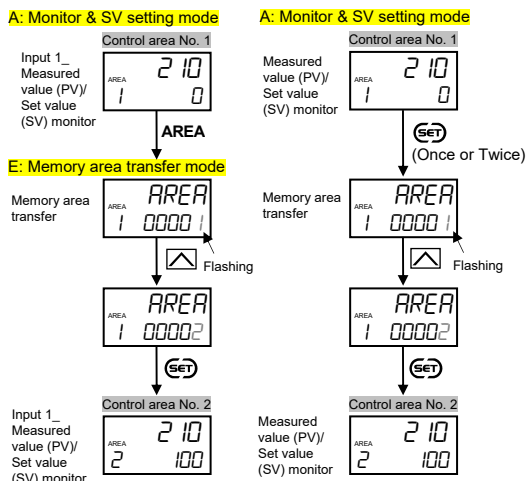
As shown below, the Event trigger values are set according to the preset event types.

```

graph TD
    Start([Input 1  
Measured value (PV)/  
Set value (SV) monitor]) -- "[SET] (2 seconds)" --> F[F: Parameter setting mode]
    F -- "[Δ]" --> Pn00[Pn00  
5H]
    Pn00 -- "[Δ]" --> Pn40[Pn40  
EH]
    Pn40 -- "[SET]" --> Ev1_1[Ev1  
00050]
    Ev1_1 -- "[MODE] (Once)" --> Ev1_2[Ev1  
00050]
    Ev1_2 -- "[Δ] (5 times)" --> Ev1_3[Ev1  
00100]
    Ev1_3 -- "[SET]" --> Ev2[Ev2  
00050]
    Ev2 -- "[SET] (2 seconds)  
or  
[SET] + [MODE]" --> Start
    Ev1_1 -.-> F1[Flashing]
    Ev1_2 -.-> F2[Flashing]
    
```

The memory area to be used for control (control area) can be switched to the desired area.

■ FZ400/900



Power ON

Model, Input type and Input range

Model
FZ900 ← Model
FZ110, FZ400 or FZ900
(Example: FZ900)

Automatically (in 1 second)

Input symbol
LINP ← Input symbol
°C ° ← Unit for input 1
Temperature input: °C or °F
Voltage/Current input: No display
Input type for input 1
(Refer to the Input type
symbol table)

Automatically (in 1 second) *

137.2
-200 ← Input 1_Input range high
← Input 1_Input range low

Automatically (in 1 second) *

2.1 NP
°C ° ← Unit for input 2 and
Input type for input 2
(Refer to Input 1 for the displayed
contents.)

Automatically (in 1 second)

137.2
-200 ← Input 2_Input range high
← Input 2_Input range low

Automatically (in 1 second) * Displayed for 2 seconds
(Single input type)

Legend

X: Press X key once
X (n times): Press X key n times
X (n seconds): Press and hold X key for n seconds or more.
X + Y (n seconds): Press and hold X and Y keys simultaneously for n seconds

Parameter select mode

Parameter setting mode

Setup setting mode

Monitor

Engine

Automatically
(When the Blind
function is activated.)

MODE+ [✓]

SET (2 seconds)

SET + MODE

SET + MODE (2 seconds)

Input type symbol

Symbol	U	V	F	S	r	E	b	n	P
	TC								
Input type	K	J	T	S	R	E	B	N	PL II

Symbol	U	V	L	P	r	J	P	U	I
	TC			RTD					
Input type	W5Re/W26Re	U	L	PR40 -20	PT100	JP100	Voltage		Current

Parameters in parameters list further changes are changed

⚠ WARNING

Parameters in the Engineering mode should be set according to the application before setting any parameters related to operation. Once the Parameters in the Engineering mode are set correctly, no further changes need to be made to parameters for the same application under normal conditions. If they are changed unnecessarily, it may result in malfunction or failure of the instrument. RKC will not bear any responsibility for malfunction or failure as a result of improper changes in the Engineering mode.

Set value (SV) is the control target value.

[Auto mode (RUN)]
 Input 1_ PV1 Measured value (PV)/Set value (SV) monitor
 2 10
 0
 GET
 Input 1_ Set value (SV) setting
 2 10
 00000 (Flashing)
 MODE (Twice)
 Input 1_ Set value (SV) setting
 2 10
 00000 (Flashing)
 MONI (Twice)
 Input 1_ Set value (SV) setting
 2 10
 00200 (Flashing)
 MONI
 Input 2_ Set value (SV) setting
 100
 00000 (Flashing)

[Auto mode (STOP)]
 Input 1_ PV1 Measured value (PV)/Set value (SV) monitor
 2 10
 SFOP
 GET
 Input 1_ Set value (SV) setting
 2 10
 00000 (Flashing)
 MODE (Twice)
 Input 1_ Set value (SV) setting
 2 10
 00000 (Flashing)
 MONI (Twice)
 Input 1_ Set value (SV) setting
 2 10
 00200 (Flashing)
 MONI
 Input 2_ Set value (SV) setting
 100
 00000 (Flashing)

[Manual mode]
 Input 1_ PV1 Measured value (PV)/Manipulated output value (MV) monitor (MAN1 lamp ON)
 2 10
 1050
 GET
 Input 1_ Set value (SV) setting
 1. SV
 00000 (Flashing)
 MODE (Twice)
 Input 1_ Set value (SV) setting
 1. SV
 00000 (Flashing)
 MONI (Twice)
 Input 1_ Set value (SV) setting
 1. SV
 00200 (Flashing)
 MONI
 Input 2_ Set value (SV) setting
 2. SV
 00000 (Flashing)

A single input type and FZ110 have different screens.

The control is switched between RUN and STOP. The instrument must be stopped before attempting the setting in the Engineering mode.

The control is switched between RUN and STOP. The instrument must be stopped before attempting the setting in the Engineering mode.

Auto mode (STOP)

A: Monitor & SV setting mode

Input 1_ Measured value (PV)/ Set value (SV) monitor

2 10
0

◀MODE (2 seconds)

C: Operation transfer mode

RUN/STOP transfer

RUN state

STOP state

Auto mode (RUN)

A: Monitor & SV setting mode

Input 1_ Measured value (PV)/ Set value (SV) monitor

2 10
5 r o p

◀MODE (2 seconds) or SET + ◀MODE

C: Operation transfer mode

RUN/STOP transfer

STOP state

RUN state

Auto mode (STOP)

A: Monitor & SV setting mode

Input 1: 2 10
Measured value (PV)/Set value (SV) monitor: 5r0P

Auto mode (RUN)

A: Monitor & SV setting mode

Input 1: 2 10
Measured value (PV)/Set value (SV) monitor: 0

C: Operation transfer mode




RUN/STOP: STOP state (R'5, 5r0P) → RUN state (R'5, rUn)

The table below shows the actual RUN/STOP modes and displays under different combinations of settings by Key operation, Communication, and Digital input (DI).

Setting via front keys or through communication	Setting via Digital Input (DI)	Instrument status	STOP display
RUN	RUN	RUN	—
	STOP	STOP	STOP
STOP	RUN		STOP
	STOP		STOP

* The instrument without RUN/STOP switching by DI will have the same display.

STOP character display

Monitor & SV setting mode	Monitor & SV setting mode	Monitor & SV setting mode
PV/SV monitor	PV/SV monitor	PV/SV monitor
		
STOP with the key	STOP with the key	STOP with the key

 To change the mode from *dSFP* to RUN, you have to close the digital input (DI) terminals** to which RUN/STOP is assigned or disable the RUN/STOP transfer function by digital input (DI). You can disable the RUN/STOP transfer function at DI function selection in the Engineering mode.

** FZ110: Terminal Nos. 15-16 or Nos. 13-16 (Factory set value)
[Based on Model code]
FZ400/900: Terminal Nos. 27-31 (Factory set value)

The control mode is switched between AUTO and MANUAL.

To switch to the ON/OFF action, set the Proportional band to zero (0).

[illegible]

This is a function to lock the set data to restrict the change of the set data.

A: Monitor & SV setting mode

Input 1_
Measured value (PV)/
Set value (SV) monitor

210
0

When the **SET** key is pressed and held for a certain period of time, the Parameter setting mode will be displayed once. If the SET key is kept pressing without releasing the finger from the key, the Setting lock mode is entered.

SET (4 seconds*)

SET (4 seconds)
or
SET + **<MODE**

D: Setting lock mode

Set data
unlock/lock
transfer

LOCK
OFF

Unlock state

Area lock

ARELK
00000

Flashing

LOCK
ON

Set lock

Engineering mode is locked

LEKLV
10000

SET

Set lock level

LEKLV
00000

<MODE (4 times)

Flashing

LEKLV
00000

Flashing

0: Unlock
1: Lock

A: SV setting mode **
C: Operation transfer mode
F: Parameter setting mode
G: Setup setting mode
H: Engineering mode

** Including "B: Parameter select mode"

 The Set lock level can be changed even after the set data lock has been set.

