

1_Manipulated output value (MV) can be displayed on the MV display unit (third display unit). Similarly, while the Input 2_ PV/SV monitor is displayed on FZ400/900, the Input 2_Manipulated output value (MV) can be displayed on the MV display unit (third display unit). These parameters are set in H: Engineering mode.



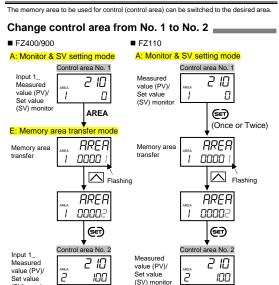
After the Manual mode is selected using the Auto/Manual transfer, set the Manipulated output value (MV) on the PV/MV monitor in the A: Monitor & SV setting mode using the and keys.

[Manual mode] A: Monitor & SV setting

Input 1_Measured value (PV)/Manipulated output value (MV) monitor S 10 (MAN1 lamp ON) 1050

- Press the key to increase the Manipulated output value (MV).
 Press the key to decrease the Manipulated output value (MV).
- If the or or key is kept pressing, the changing rate of the Manipulated output value (MV) will be accelerated.
- The output value adjusted with the and keys will be valid

8. MEMORY AREA TRANSFER



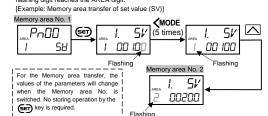
Outline of memory area

The Memory area function is to store up to 16 areas (patterns) of parameters such as a Set value (SV). This parameter can be found in the F: Parameter setting mode. Any one area out of 16 areas can be called up for the control.

 Parameter groups in F: Parameter setting mode Input 1 \checkmark \checkmark Control No. 52 * function

*Parameter group Nos. 40, 52, and 56 may not be displayed depending on the

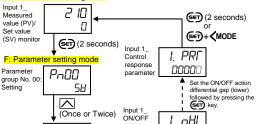
• To change a memory area number to another when a certain parameter is displayed, press the MODE key to shift the flashing digit to the left until the flashing digit reaches the AREA digit.



9. SWITCHING TO THE ON/OFF ACTION

To switch to the ON/OFF action, set the Proportional band to zero (0) Control the Input 1 with the ON/OFF action =

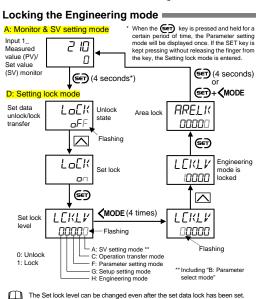
A: Monitor & SV setting mode



I. oHL Pn5 1 0000 / group No. 51 Input 1_ Set the ON/OFF action differential gap (upper) followed by pressing the lConf € (SET) key I. aHH 000304 Change to the ON/OFF action **∠**MODE (Once) ρ 00000 00030

10. SET DATA UNLOCK/LOCK TRANSFER

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



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

11. CHANGE OF THE INPUT TYPE

The Input related parameters may include: Input type, Display unit, Decimal point position, Input range high, and [Data range of decimal point position] Changing the Input 1 to Thermocouple type J (0 to 800°C) 0: No decimal place IPGJP I. Pak Assuming that the present Input 1 is configured to Thermocouple type K (-200 to +1372 °C). One decimal place 2 10 00000 : Two decimal places 00840 value (PV)/ Three decimal places Input 1_ Measured 2 10 4: Four decimal places € €FT+**〈**MODE value (PV)/ Set value Fn2 1 [Data range of input type] 0 O: Thermocouple K

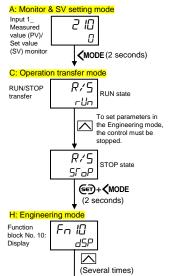
1: Thermocouple [Data range of Input range high] IPGSH Input range table •TC input **〈MODE** (2 seconds) Input range low to Maximum value of input range € 0 1200 Input 1_ 2 10 Thermocouple S Measured value (PV)/ Thermocouple B R/5 RUN/STOP LINP rUn 00000, Thermocouple T **∠MODE** (2 seconds) IPG5H \triangle W5Re/W26Re 9: Thermocouple PLII 00800 10: Thermocouple U LINP € RUN/STOP 12: Thermocouple PR40-20 STOP state 0000 | 13: RTD Pt100 R/5 SraP [Data range of Input range low] IPGSL STOP state 14: RTD JPt100 Minimum value of input range to Input range high SCOP 15: Current 0 to 20 mA DC 16: Current 4 to 20 mA DC € -0200 \bigvee 16: Current 4 to 20 mA DC
17: Voltage 0 to 10 V DC
18: Voltage 0 to 5 V DC
19: Voltage 1 to 5 V DC
20: Voltage 0 to 1 V DC
21: Voltage -10 to +10 V DC
22: Voltage -5 to +5 V DC €T+<MODE (2 seconds) ILINI T Set the "0 00000, rUn IPGSL 0 to 2534 °F rogrammable ra -1999 to +9999 € 23: Voltage 0 to 100 mV DC 24: Voltage 0 to 10 mV DC **〈MODE** (2 seconds) nnnnn (SET)+ €MODE € (Twice)

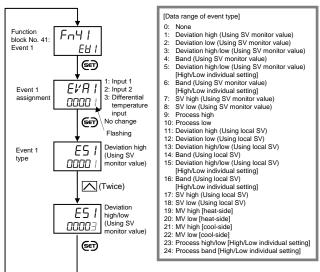
12. CHANGE OF THE EVENT TYPE

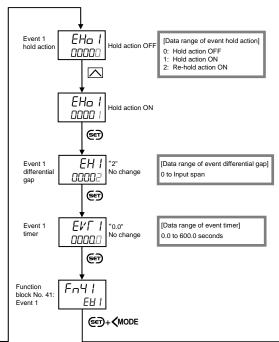
The event related parameters may include: Event assignment, Event type, Event hold action, Event differential gap and Event timer. These parameters can be set in the H: Engineering mode.

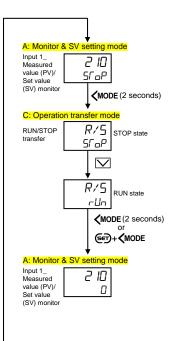
Changing Event 1 to Deviation high/low (Using SV monitor value)

Assuming that the present Event 1 is configured to Deviation high (Using the SV monitor value). Other setting · · · Event assignment: Input 1, Event hold action: Hold action ON, Event differential gap: 2, Event timer 0.0









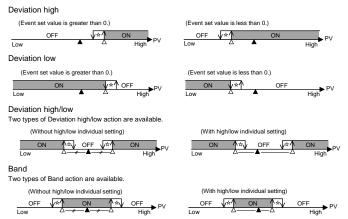
Description of event action

Some examples of event action are described in the following

OFF: Event action turned off (▲: Set value (SV) △: Event set value ☆: Event differential gap)

• Deviation action (High, Low, High/low, Band)

When the deviation (PV - SV) reaches the Event set value, event ON occurs.



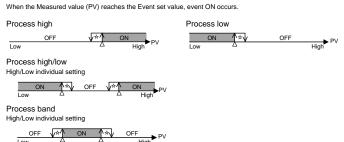
Set value action (High, Low)

When the Set value (SV) reaches the Event set value, event ON occurs.



• Input value action (High, Low)

When the Measured value (PV) reaches the Event set value, event ON occurs



Manipulated output value action (High, Low)



SV monitor value type and Local SV type

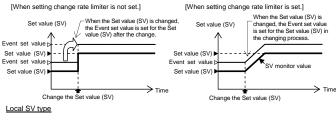
The Event set value is set for the SV monitor value.

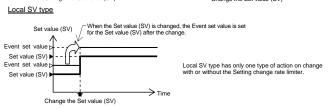
Setting change rate limiter adjusts the Event set value to follow the same change rate of SV monitor value

Local SV type

The Event set value is set for the Set value (SV) [Local SV].

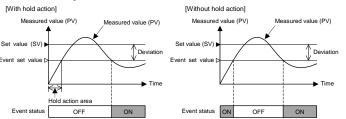
SV monitor value type





Description of event hold action =

When hold action is ON, the event action is suppressed at start-up or STOP to RUN until the measured value has



Re-hold action

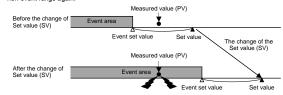
value has entered the non-event range.

The re-hold action is invalid for any of the following. However, the hold action is valid.

When Setting change rate limiter other than "0" are set.

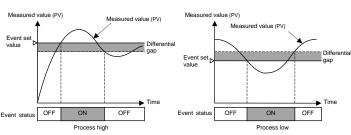
• When operation mode is remote mode [Example] When Event 1 type is the deviation low

When re-hold action is OFF and event output type is deviation, the event output is produced due to the Set value (SV) change. The re-hold action suppresses the alarm output until the measured value has entered the



Description of event differential gap

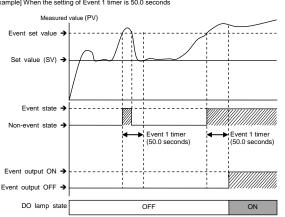
It prevents chattering of event output due to the measured value fluctuation around the Event set value



Description of event timer

When an event condition becomes ON, the output is suppressed until the Event timer set time elapses. If the even output is still ON after time is up, the output will resume

[Example] When the setting of Event 1 timer is 50.0 seconds



The Event timer is also activated for the following reasons:

- · When set to the event state simultaneously with power turned on When set to the event state simultaneously with control changed to RUN (control start) from STOP
- In the event wait state, no event output is turned on even after the Event timer preset time has elapsed.
- The Event timer is reset for the following reasons:
 - When power failure occurs while the Event timer is being activated
 When control is changed to STOP (control stop) from RUN (control start) while the Event timer is

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