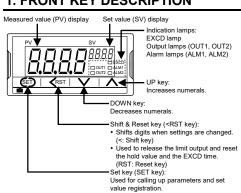
Quick Operation Manual

IMR03H02-E1 All Rights Res Thank you for purchasing this RKC product. This manual descries basic key operations of the SA200L. In order to achieve maximum performance and ensure proper operation of the instrument, carefully read all the instructions in this manual. Please place the manual in a convenient location for easy reference.

For detailed handling procedures and key operations, refer to separate SA200L Instruction Manual (IMR03H03-E□). The manual can be downloaded from the official RKC website: https://www.rkcinst.co.ip/english/download-center/

1. FRONT KEY DESCRIPTION



■ Input type and Input range display

ely confirms the input type and input range

mple: Input type: Thermocouple K, Input range: 0 to 1372 °C Unit for input and SV display (Celsius: °C Fahrenheit: °F, Voltage/Current: no character shown) Input type symbol * ַסְרָ הַ וְיּיּיּלִ Input range low (Setting limiter [low limit])

				0	13'10					iput range Setting lin			jh lim	it])	
* Input	Ту	pe S	yml	ool "	Γabl	е									
Symbol	ħ	Ľ	۲	5	Ь	Ε	Γ	٦	Р	ū	Ш	L	JР	PΓ	R
Innut					Th	nern	1000	ouple	e (TC)				R	ΓD	Voltage
Input type	Κ	J	R	s	В	Е	Т	Ν	PL II	W5Re/ W26Re	U	L	JPt 100	Pt 100	(Current

■ Monitor & SV Setting Mode

After powered up, following the self-diagnosis, the instrument enters this mode. The following operations are available in this mode.

• The Limit set values (SV) can be set. The blinking digit on the SV display indicates which digit can be set.

Setting range: Within input range (Setting limiter [low limit] to Setting limiter [high limit])
Factory set value: TC/RTD input: 0 (0.0) Voltage/Current input: 0.0

 The following parameters can be monitored. Measured value (PV) Peak hold value Limit set value (SV) Bottom hold value

The Alarm interlock can be released.

■ Parameter Setting Mode

This is the mode used to set various parameters such as alarms, transmission outputs and Set data lock. ■ Communication Setting Mode

This is a mode to set various parameters for the communication function. This mode is displayed when the instrument has the communication function.

■ Engineering Mode

This is a mode to set various parameters related to the product specifications. No change is required under normal operation. 2.2 Changing Parameter Settings

Procedures to change parameter settings are shown below

To store a new value for the parameter, always press the SET key.

The display changes to the next parameter and the new value will be stored.

A new value will not be stored without pressing the SET key after the new value is displayed on the display.

After a new value has been displayed by using the UP and DOWN keys,

the SET key must be pressed within one minute, or the new value is not stored and the display will return to the PV/SV monitor.

When the set data is locked, the digits on the SV display are brightly lit and the set value cannot be changed. The locked parameters can be released by "Enter password for Shoel/Hide" and "Set data lock (LCK)" in the Parameter select mode. (See 3.3, 3.4)

■ Change the Limit set value (SV)

Example: Change the Limit set value (SV) from 0 °C to 200 °C

 Select the Limit set value (SV)
 Press the SET key in the PV/SV monitor until the Limit set value (SV) is displayed.







Shift the blinking digit
 Press the <RST key to blink the hundreds digit. The blinking digit indicates which digit can be set.

√RST 28°°° 3. Change the Set value (SV)
Press the UP key to change the number to 2.

<u> 28 0000</u> \Rightarrow

Store the Set value (SV)
 Press the SET key to sto









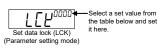
■ Limit output release via communication

The limit output can be released via corelease (identifier: HR/address: 0009H)."

Refer to the SA200L Communication Instruction Manual (IMR03H04-E□) for "Limit action release (identifier: HR/address: 0009H).

3.3 Set Data Lock (LCK)

The set data lock restricts parameter setting changes by key operation. This function prevents accidental changes of settings. The contents of the parameters to be locked can be set at "Set data lock (LCK)" in the Parameter



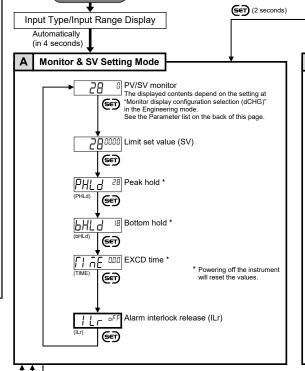
Set value	Parameters which can be changed
0000	All parameters [Factory set value] *
0001	Limit set value (SV), Alarm1 (ALM1), Alarm 2 (ALM2), Alarm 1 delay timer, Alarm 2 delay timer
0010	All parameters except for Alarm1 (ALM1), Alarm 2 (ALM2), Alarm 1 delay timer and Alarm 2 delay timer *
0100	All parameters except for Limit set value (SV) *
0011	Limit set value (SV)
0101	Alarm1 (ALM1), Alarm 2 (ALM2), Alarm 1 delay timer, Alarm 2 delay timer
0110	All parameters except the following. * Limit set value (SV), Alarm1 (ALM1), Alarm 2 (ALM2), Alarm 1 delay timer, Alarm 2 delay timer
0111	No parameters (All locked)

The following parameters are not covered by the Set data lock.

• Enter password for Show/Hide • Hide LCK Set password for Show/Hide

 Set data lock (LCK) · Parameter in the Communication setting mode

2. OPERATION



2.1 Call Procedure for Each Mode and How to Switch Parameters

Switching the mode to the Engineering mode from other modes will release the Limit output. The Hold value and the EXCD time will also be reset. В **Parameter Setting Mode** Alarm 1 (ALM1) € Alarm 1 delay time € AL 20050 Alarm 2 (ALM2) € Alarm 2 delay timer €

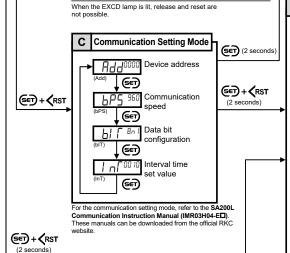
Engineering Mode

See the back side for the details of the parameters.

This instrument returns to the PV/SV monitor if no key operation is performed for more than 1 minute. The following parameters are exceptional and will not return to the PV/SV monitor.

• Peak hold
• Bottom hold
• Alarm interlock release (ILr) Transmission output (AO) specification Ro € Transmission output scale high (AHS) RHS **(ET)** Transmission output scale low (ALS) (ALS) €€ L[Pi 0000] Enter password for Show/Hide € PH0000 PV bias Set data lock (LCK) € **(SET)** 1000 PV ratio (Pr) Set password for Show/Hide € € dF 0000 Digital filter Hide LCK **(ET) (ET)** Return to the first parameter setting item

(€€7) +
(RST)



Pressing this key for one second will release

the limit output and reset the peak hold value bottom hold value, and EXCD time.

For the procedure to call the engineering mode, see "5. GO TO ENGINEERING MODE" on the back side.

Monitor display To F91. configuration \mathbf{V} selection € € 9<u>CHC0000</u> → Return to the F10. V Sampling cycle position setting selection selection <u>Unl [0000</u>] €€Э PUdP0000 ← 50P000 ← Return to the F21. V Output logic operation selection Return to the F30. € Holding peak V Integrated ambient ROM version operating time temperature Return to the F91 **(ET)** € € [[] 580 To F10.

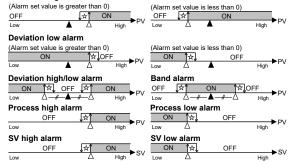
■ Change the Alarm set value

∢RST

Alarm type

Diagrams of each alarm operation are shown below: (▲: Limit set value (SV) △: Alarm set value ☆: Alarm differential gap) Deviation high alarm

(Alarm set value is less than 0



Example: Change the Alarm 1 (ALM1) from 50 °C to 100 °C

Select the Parameter setting mode
 Press and hold the SET key for 2 seconds in the Monitor & SV setting mode to enter to



Parameters displayed in the Parameter setting mode depend on the product specifications. For example, when the Alarm 1 is not supplied, the parameter AL1 for "Alarm 1 (ALM1)" will not be displayed.

2. Shift the blinking digit
Press the <RST key to blink the tens digit. The blinking digit indicates which digit can be set

3.4 Hide LCK (Set data lock) Function =

28 200

Enter your desired password using the UP, DOWN and <RST keys

(1) Register the password

2. Select the "Set password for Show/Hide" Press the SET key several times until "Set pa

LEP5 OOM

4. Register the password Press the SET key to save the

to Parameter setting mode

100500 **₹**RST ЯL RL \Rightarrow

If you don't want the locked data to be unlocked, you can use the "Hide LCK (Set data lock)" function to hide the "Set data lock (LCK)." The "Set data lock (LCK)" can be

Select the Parameter setting mode
 Press and hold the SET key for 2 seconds in the Monitor & SV setting mode to enter

€

 \Rightarrow

The parameter displayed after the SET key is pressed depends on the product

(SET)

€

RL

LEP5 ***

CPS^{##23}

(Parameter

(2 se

3. Change the Alarm set value Press the UP key to change the number to "0." The digit is shifted to the higher digit and the number at the hundreds digit becomes "1."



4. Store the Alarm set value Press the SET key to store the new set value. The display changes to the next



■ Change parameters other than the Limit set value (SV) and Alarm set value

The changing procedures are the same as those of examples 2. to 4. in the "■ Change the Limit set value (SV)." Pressing the SET key after the setting end shifts to the next parameter. When no parameter setting is required, return the instrument to the Monitor &

3. OPERATION

3.1 Operating Precautions

- (1) All mounting and wiring must be completed before the power is turned on.
 (2) The settings for the Limit set value (SV) and all parameters should be appropriate for the monitored object.
 (3) A power supply switch is not furnished with this instrument. It is ready to operate as soon as the power is turned on. The limit output status at power-on depends on the setting in the Engineering mode. The instrument is configured to normal at the time of shipping. Unless the Measured value (PV) is above the Limit set value (SV) or below the Measured value, the instrument starts operation with the Limit output off.

nect the input signal wiring and turn the power on. If the input signal wiring is not complete prior to turning the power on, the instrundetermines that burnout has occurred.

- A power failure of 20 ms or less will not affect the action. When a power failure of more than 20 ms occurs, the instrument assumes that the power has been turned off. When power returns, the controller will retain the conditions that existed prior to
- The alarm hold action is activated when the power is turned on or when the Limit set value (SV) is changed. (It varies with the setting of the Hold action se

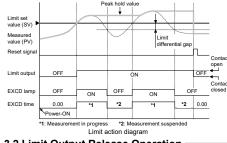
■ Limit action

The Limit output turns on when the measured value (PV) exceeds (or falls below) the Limit set value (SV). When the limit output turns on, the OUT1 (or OUT2) lamp and the EXCD lamp will turn on. The Output ON state of the Limit output will be maintained until the Reset operation is performed.

The Limit action and the Alarm action are OFF in the Engineering

Some parameter symbols may not be displayed depending on the specification. Those parameter screens are shown in a bold frame

Bold frame



3.2 Limit Output Release Operation

There are three ways to release the limit output as shown below · By key operation . By communication (optional)

By contact input (optional)

While the EXCD lamp stays ON, the Limit output cannot be released. Releasing the Limit output will also reset the hold value and the EXCD

■ Limit output release by key operation

Pressing and holding the <RST key for more than one second in the Monitor and SV setting mode will release the limit output. When the limit output is released, the OUT1 (or OUT2) lamp will turn off. The time to press the <RST key depends on the setting of "<RST key operation time selection" in the Engineering mode.

■ Limit output release by contact input

Limit output can be released according to the open or closed state of the terminal numbers 10 and 11 (DI1).

Contact input	Terminal No.	Release operation
	10, 11	Contact closed
		(Rising edge)
DIT T DIZ T		



PV/SV monitor (Monitor & SV setting mode) (Parameter setting mode) The parameter displayed after the SET key is pressed depends on the product

Alarm 1 (ALM1)

€

(2 seconds)

2. Select the "Hide LCK"

Press the SET key several times until "Hide LCK" is displayed.



3. Change to "1: Lock"
Press the UP key to change the nu

(2) Hiding the Set data lock (LCK)

<u>28</u> 200

enter to Parameter setting mode



4. Hide the parameter Press the SET key to hide the "Set data lock (LCK)." The "Set password for Show/Hide and "Hide LCK" will also be hidden. The display changes to the next parameter



The parameter displayed after the SET key is pressed depends on the product

(3) Show LCK (Set data lock) again

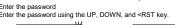
Select the Parameter setting mode
Press and hold the SET key for 2 seconds in the Monitor & SV setting
mode to enter to Parameter setting mode.



The parameter displayed after the SET key is pressed depends or 2. Select the "Enter password for Show/Hide Press the SET key several times until "Enter password for Show/Hide" is









4. Show the parameter Press the SET key to show the "Set data lock (LCK)." The "Set passw for Show/Hide" and "Hide LCK" will be also shown. The display change



Set data lock (LCK) The password you entered at "Enter password for Show/Hide" w reset to "0000" when you press the SET key to shift to the nex item. sword for Show/Hide" will be

3.5 Alarm Interlock Release Operation ■

M NOTE

se the alarm interlock when the Alarm is off.

■ Alarm interlock release by key operation

Press the DOWN key while pressing and holding the UP key at "Alarm interlock release (ILI)" in the Monitor & SV setting mode. This will release the Alarm interlock. The Output lamp (OUT1 or OUT2) and the Alarm lamp (ALM1 or ALM2) will go off when the Alarm interlock is released.



■ Alarm interlock release by contact input

The Alarm interlock can be released by the contact closure 10 and 12 (DI2).



Terminal No.	Release operation
10, 12	Contact closed
	(Rising edge)

■ Alarm interlock release via communication

The alarm interlock can be released by the "Alarm IR/address: 000AH)" of the communication data.

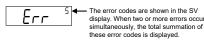
For the "Alarm Interlock release (identifier: IR/address: 000AH)" of the

4. ERROR DISPLAYS

■ Self-diagnostic error

Error No.	Description	Operation at error	Solution
1	Adjustment data error	Display: Error display (Err)	Turn off the power once. If an error occurs after the
5	EEPROM error	Limit output: All outputs are OFF	power is turned on again, please contact RKC sales
4	A/D conversion error	Alarm output:	office or the agent.
8	RAM check error	All outputs are OFF	
128	Watchdog timer error		

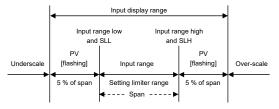
Example: When the adjustment data error (/) and A/D conversion error (4) occurs



When a power supply voltage error occurs, nothing will be displayed on the screen. The Limit output and Alarm output will all go off.

■ Over-scale and Underscale

	Display	Description	Solution		
	Measured value (PV) is flashing	PV is outside of input range.	WARNING To prevent electric shock, always turn off the power		
	oooo flashing	Over-scale:	before replacing the sensor.		
	0000	PV is above the high input display range limit.	Check Input type, Input range and connecting state of sensor. Confirm		
	uuuu flashing	Underscale: PV is below the low	that the sensor or wire is not broken		
	71717171 71717171 717171717 500	input display range limit.			



Display or data rang

Data rang

on: Alarm interlock state

rocess alarm, SV alarn

Deviation alarm: -Span to +Span

0 to 9999 seconds 3

Deviation alarm:

Span to +Span

.500 to 1.500 time

0 to 100 seconds (0: Digital filter OFF)

PH: Measured value (PV

5H: Limit set value (SV) dEH: Deviation (DEV)

3 The actual delay time is the value obtained by multiplying the delay timer value and the delay

Example: Alarm 1 delay timer (10 sec.) multiplied by (Alarm 1 delay timer unit) (30 sec.) = 300 sec. These parameters will not be displayed when either "Alarm 1 delay timer unit" or "Alarm 2

Process alarm, SV alarm

Same as input range, 1, 2

However, within -1999 to +9999 digits) to 9999 seconds 3

Span to +Span ¹ However, within –1999 to +9999 digits)

Same as input range. 1, 2

oFF: Alarm interlock releas

A. Monitor & SV Setting Mode

■ (SET) (2 seconds) **■**

Factory set value

TC/RTD inputs

50 (50.0)

inputs: 5.0

TC/RTD inputs

50 (50.0)

inputs 5.0

C/RTD inc

SLH: Setting limiter [high limit] SLL: Setting limiter [low limit]

ILr (ILr)

(AL1)

(ALT1)

(AL2)

(ALT2)

(Pr) dF (dF)

(Ao)

timer unit value

delay timer unit" is zero.

larm interlock

ease (ILr)

B. Parameter Setting Mode

larm 1 (ALM1

lelay timer

Alarm 2

utput (AO)

Varies with the setting of the Decimal point position.

Setting limiter [low limit] to Setting limiter [high limit]

larm 2 (ALM2)

5. GO TO ENGINEERING MODE

⚠ WARNING

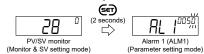
Parameters in the Engineering mode should be set according to the application before setting any parameter related to operation. Once the parameters in the Engineering mode are set correctly, no further changes need to be made to parameters for the same application under normal conditions. If they are 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.

To switch the mode to the Engineering mode, have the "Set data lock (LCK)"

To display the "Set data lock (LCK)," see "(3) Show LCK (Set data lock) again" on the front page.

■ Procedures

Select the Parameter setting mode
 Press and hold the SET key for 2 seconds in the Monitor & SV setting mode state to transfer to Parameter setting mode.



The parameter displayed after the SET key is pressed depends on the oduct specifications

displayed.

Data range

Limit set value (SV): Same as input range 1, 2 Deviation (DEV):

-Span to +Span 1, 3 (However, within -1999

to +9999 digits) Measured value (PV):

Same as input range 1, imit set value (SV):

Same as input range 1, 4
Deviation (DEV):

-Span to +Span 1, 5
(However, within -1999

to +9999 digits)

0000 to 9999

Varies with the setting of the Decimal point position.
Transmission output scale low to Setting limiter [high limit]
Transmission output scale low to +Span
Setting limiter [low limit] to Transmission output scale high
-Span to Transmission output scale high
The entered password will be reset to "0000" by pressing the SET key.

leasured value (PV)

Same as input range



utput scale high

output scale low (ALS)

Set password for

(AHS)

(ALS)

(LCPE)





B. Parameter Setting Mode

Factory set value

TC/RTD inputs:

Input range high or +Span

inputs: 100.0

TC/RTD inputs

inputs: 0.0

0000

0000

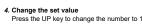
0000

3. Shift the blinking digit



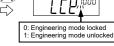












5. Store the set value

Press the SET key to store the new set value. The display goes to the next







6. Select the Engineering mode.

Press and hold the <RST key for 2 seconds while pressing the SET key to go to the Engineering mode. Thus, the symbol "F10." for function block is displayed first.



Name

Communication

Data bit

set value

onfiguration

No. Symbol

Rdd (Add) 6PS

(bPS)

ЫГ (bIT)

(InT)



C: Communication Setting Mode SET + RST

Data range

960

8n1

2400 bps

4800 bps 9600 bps 1920: 19200 bps 840: 38400 bps 760: 57600 bps



display conditions are satisfied.

6. PARAMETER LIST

Some parameters may not be displayed depending on the conditions. These parameters are displayed when you specify them when ordering or when you have made settings to use the function. Parameters with "*" in the name will be displayed only when all the (SET)

A. I	A. Monitor & SV Setting Mode								
No.	Symbol	Name	Display or data range	Factory set value					
1	_	PV/SV monitor 1	Measured value (PV) and Limit set value (SV) are displayed.	_					
			Measured value (PV) display: Within input range. ^{2, 3} Set value (SV) display: Within input range. ^{2, 4}						
	_	PV/SV monitor ¹	Only measured value (PV) is displayed.	_					
			Measured value (PV) display: Within input range. ^{2, 3} Set value (SV) display: No display						
	5H (SV)	PV/SV monitor ¹	Limit set value (SV) and Parameter symbol are displayed.	_					
			Measured value (PV) display: Within input range. 2, 4 Limit set value (SV) is displayed. Set value (SV) display: "5H" is displayed.						
2		Limit set value (SV)	Within input range. 2, 4	TC/RTD inputs: 0 (0.0) Voltage/Current inputs: 0.0					
3	PHLd (PHLd)	Peak hold	Within input range ^{2, 4}	_					
4	ЬНLd (bHLd)	Bottom hold	Within input range ^{2, 4}	_					
5	(TIME)	EXCD time ⁵	0.00 to 99.59 (0 min 00 sec to 99 min 59 sec) 100.0 to 999.5 (100 min 0 sec to 999 min 59 sec)	_					
1 De	pendina o	n the setting of "I	Monitor display configuration select	tion." one of these					

- Screen's win to uspayed...

 2 Varies with the setting of the Decimal point position.

 3 Setting limiter [low limit] (5 % of span) to Setting limiter [high limit] + (5 % of span)

 4 Setting limiter [low limit] to Setting limiter [high limit]

 5 The display unit shows "- - -" if time exceeds 1000 minutes.

Function block 21 Factory set value

Data bit configuration table						
Set value	Data bit	Parity bit	Stop bit			
?n / (7n1)	7	None	1			
?n2 (7n2)	7	None	2			
ΩE I (7E1)	7	Even	1			
7E2 (7E2)	7	Even	2			
7₀ / (701)	7	Odd	1			
7₀2 (7o2)	7	Odd	2			
Bn I (8n1)	8	None	1			
Bn2 (8n2)	8	None	2			
BE ! (8E1)	8	Even	1			
8E2 (8 E 2)	8	Even	2			
Bo ! (8o1)	8	Odd	1			
8₀2 (802)	8	Odd	2			

D. Engineering Mode SET + RST (2 seconds)

No.	Symbol	Name	Data range	Factory set value
25	F IŪ. (F10.)	Function block 10	This is the first parameter symbol of Function block 10.	_
26		Monitor display configuration selection	O: PV/SV display Only PV display Only SV display	0

No.	Symbol	Name	Data range	Factory set value
27	F2 I. (F21.)	Function block 21	This is the first parameter symbol of Function block 21.	_
28	I nP (InP)	input type selection	0: Thermocouple K 1 1: Thermocouple J 1 2: Thermocouple R 1 3: Thermocouple R 1 3: Thermocouple B 1 5: Thermocouple E 1 6: Thermocouple B 1 7: Thermocouple D 1 7: Thermocouple T 1 8: Thermocouple U 1 10: Thermocouple U 1 11: Thermocouple U 1 11: Thermocouple L II 1 10: Thermocouple L II 1 11: Thermocouple L II 1 12: RTD Pt100 1 14: 0 10 5 V DC or 0 10 20 AD C 1.2 15: 1 10 5 V DC or 1 16: 0 10 10 V DC 1 16: 0 10 10 V DC 1	Factory set value varies depending on the instrument specification.
29	Unl Γ (UnlT)	Display unit selection	0: °C 1: °F	0
30	PEdP (PGdP)	Decimal point position setting	O: No digit below decimal point 1 digit below decimal point 2: 2 digits below decimal point 3: 3 digits below decimal point	Factory set value varies depending on the instrument specification.

Input type (TC/RTD to voltage/current inputs or voltage/current inputs to TC/RTD) cannot be changed because the hardware is different.

² For the current input specification, a resistor of 250 Ω must be connected

JLII	Setting infilter	-1333 to +3333	٠.
SLH)	[high limit]	Set the Setting limiter by referring to the input range table in the	
			S

	(==:-)	[9]	Set the Setting limiter by referring to the input range table in the SA200L Installation Manual (IMR03H01-X□).	on the instrumen specification.
32	SLL (SLL)	Setting limiter [low limit]	This instrument sets the input range with the Setting limiter.	Factory set value varies depending on the instrumen specification.
33	SAP	Sampling cycle	0: 250 ms (0.25 seconds)	1

Data range

Data range

_				
35	LoGE	Output logic	001: OUT1: Limit output	Factory set value
	(LoGC)	operation	(De-energized)	varies depending
		selection	OUT2: OR output of Alarm 1	on the instrument
			and Alarm 2 (Energized)	specification.
			002: OUT1: Limit output	
			(De-energized)	
			OUT2: AND output of Alarm 1	
			and Alarm 2 (Energized)	
			003: OUT1: Limit output	
			(De-energized)	
			OUT2: Alarm 1 output	
			(Energized)	
			004: OUT1: Limit output	
			(De-energized)	
			OUT2: OR output of Alarm 1 and	
			Alarm 2 (De-energized)	
			005: OUT1: Limit output	
			(De-energized)	
			OUT2: AND output of Alarm 1 and	
			Alarm 2 (De-energized)	
			006: OUT1: Limit output	
			(De-energized)	
			OUT2: Alarm 1 output	
			(De-energized)	
			007: OUT1: Limit output	
			(De-energized)	
			OUT2: Not output	
			(The Alarm state can be	
			checked via communication	
			or by lamp lighting)	
			008: OUT1: Limit output	
			(Energized)	
			OUT2: OR output of Alarm 1 and	
			Alarm 2 (Energized)	
			009: OUT1: Limit output	
			(Energized)	
			OUT2: AND output of Alarm 1 and	
			Alarm 2 (Energized)	
			010: OUT1: Limit output	
			(Energized)	
			OUT2: Alarm 1 output	
			(Energized)	1
			011: OUT1: Limit output	1
			(Energized)	1
			OUT2: OR output of Alarm 1 and	1
			Alarm 2 (De-energized)	
			012: OUT1: Limit output	1
			(Energized)	1
			OUT2: AND output of Alarm 1 and	
			Alarm 2 (De-energized)	
			013: OUT1: Limit output	
			(Energized)	
			OUT2: Alarm 1 output	1
			(De-energized)	1
			014: OUT1: Limit output	1
			(Energized)	1
				1
			OUT2: Not output	1
			(The Alarm state can be	1
			checked via communication	1
			or by lamp lighting)	1
			015: OUT1: Transmission output	1
			OUT2: Limit output	
			(De-energized)	1
			016: OUT1: Transmission output	

OUT2: Limit output

(Energized)

No.	Symbol	Name	Data range	Factory set value
36	F4 !. (F41.)	Function block 41	This is the first parameter symbol of Function block 41.	
37	R5 I (AS1)	Alarm 1 type selection	0: Alarm not provided 1: SV high alarm 2: SV low alarm 3: Process high alarm 4: Process low alarm 5: Deviation high alarm 6: Deviation low alarm 7: Deviation low alarm 8: Band alarm	Factory set value varies depending on the instrument specification
38	ЯНо I (AHo1)	Alarm 1 hold action selection	Without alarm hold action Effective When the power is turned on. When the mode is switched from the Engineering mode to other modes. When the power is turned on. When the power is turned on. When the mode is switched from the Engineering mode to other modes. When the Limit set value (SV) is changed.	Factory set value varies depending on the instrument specification
39	ЯН I (АН1)	Alarm 1 differential gap setting	0 (0.0) to Span 1 (However, 9999 digits or less)	TC/RTD inputs 2 (2.0) Voltage/Current inputs: 0.2
40	REa I (AEo1)	Alarm 1 process abnormality action selection	Normal processing Forcibly turned on when abnormal	Alarm 1 not provided: 0 Alarm 1 provided: 1
41	1 L S 1 (IL S 1)	Alarm 1 interlock	Disable Alarm 1 interlock function Fnable Alarm 1 interlock function	0

(ATS1) timer unit 0: Alarm 1 delay timer function OFF

0 to 60 seconds

No.	Symbol	Name	Data range	Factory set value
43	F42. (F42.)	Function block 42	This is the first parameter symbol of Function block 42.	_
44	R52 (AS2)	Alarm 2 type selection	Alarm not provided Vhigh alarm Vhigh alarm Process high alarm Process low alarm Deviation high alarm Deviation low alarm Deviation low alarm Deviation alarm Band alarm	Factory set value varies depending on the instrument specification.
45	RHa⊋ (AHo2)	Alarm 2 hold action selection	Without alarm hold action Effective When the power is turned on. When the mode is switched from the Engineering mode to other modes. Effective When the power is turned on. When the mode is switched from the Engineering mode to other modes. When the Limit set value (SV) is changed.	Factory set value varies depending on the instrument specification
46	RH2 (AH2)	Alarm 2 differential gap setting	0 (0.0) to Span ¹ (However, 9999 digits or less)	TC/RTD inputs: 2 (2.0) Voltage/Current inputs: 0.2
47	RE⊕2 (AEo2)	Alarm 2 process abnormality action selection	Normal processing Forcibly turned on when abnormal	Alarm 2 not provided: 0 Alarm 2 provided: 1
48	1 L 52 (ILS2)	Alarm 2 interlock function selection	Disable Alarm 2 interlock function Enable Alarm 2 interlock function	0
49	AF52 (ATS2)	Alarm 2 delay timer unit	0 to 60 seconds 0: Alarm 2 delay timer function OFF	0

Varies with the setting of the Decimal point position

No.	Symbol	Name	Data range	Factory set value
	•		ů	raciory set value
50	F5 I. (F51.)	Function block 51	This is the first parameter symbol of Function block 51.	
51	oS)	Limit action type selection	0: Limit action (high limit) 1: Limit action (low limit)	0
52	aН (oH)	Limit action differential gap	0 (0.0) to Span ¹ (However, 9999 digits or less)	TC/RTD inputs: 2 (2.0) Voltage/ Current inputs: 0.2
53	LHa (LHo)	Limit action hold action selection	Without hold action Effective When the power is turned on. When the mode is switched from the Engineering mode to other modes.	0
54	LEo)	Limit action process abnormality action selection	Normal processing Forced ON at input error	0
55	(LPoW)	Limit action at the time of power ON	Normal processing Forced ON at power-on	0
56	rTI ñ (rTIM)	<rst key<br="">operation time selection</rst>	0: Press and hold (for one second) 1: Press once	0
57	rSEL (rSEL)	Reset action selection	All data is reset on each monitoring	0

each monitoring Varies with the setting of the Decimal point position ² "All data" described in the Data range mean Peak hold value, Bottom hold value, and EXCD time. Parameters cleared in each screen are as follows.

Each data is reset on

١	When the set value of the Reset action selection is set to "0."					
	Screen	Parameters cleared by Reset operation				
	PV/SV monitor	Limit output, Peak hold value, Bottom hold value,				
	Peak hold	EXCD time				
	Bottom hold					
	EXCD time					

hen the set value of the Reset action selection is set to "1."				
Screen Parameters cleared by Reset operation				
PV/SV monitor	Limit output			
Peak hold	Limit output, Peak hold value, Bottom hold value			
Bottom hold				
EXCD time	Limit output, EXCD time			

No.	Symbol	Name	Data range	Factory set value
58	F6 I. (F61.)	Function block 61	This is the first parameter symbol of Function block 61.	_
59		Communication protocol selection	·	Factory set value varies depending on the instrument specification.

No.	Symbol	Name	Data range	Factory set value
60	F9 I. (F91.)	Function block 91	This is the first parameter symbol of Function block 91.	
61	1365 (1365)	ROM version	Display the version of loading software.	_
62	تار (WT)	Integrated operating time	0 to 99999 hours	_
63	(TCJ)	Holding peak ambient	-256.0 to +256.0 °C	



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