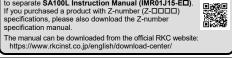
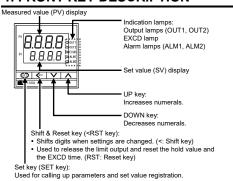
Quick Operation Manual

IMR01J14-E1 All Rights Reserved, Copyright © 2024, RKC INSTRUMENT INC Thank you for purchasing this RKC product. This manual descries basic key operations of the SA100L. In order to achieve maximum performance and ensure proper operation of the instrument, carefully read all the instructions in this manual.

e place the manual in a convenient location for easy referen For detailed handling procedures and key operations, refer to separate SA100L Instruction Manual (IMR01J15-EII). If you purchased a product with Z-number (Z-DIDIII) specifications, please also download the Z-number specification manual.



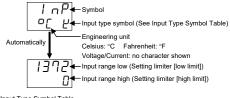
1. FRONT KEY DESCRIPTION



■ Input type and Input range display

nfirms the input type and

Example: Input type: Thermocouple K, Input range: 0 to 1372 °C



Symbol P J r 5 b E r n P J U L JP Pr H

■ Monitor & SV Setting Mode

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

W5Re

EXCD time

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

rious 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

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.

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0 0 % 0 0 0 % 0

PHLd

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he display changes to the

the hundreds digit. The blinking digit indicates

Procedures to change parameter settings are shown below

■ Change the Limit set value (SV)

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PV/SV monitor

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

3. Change the Set value (SV)

Press the SET key to ste

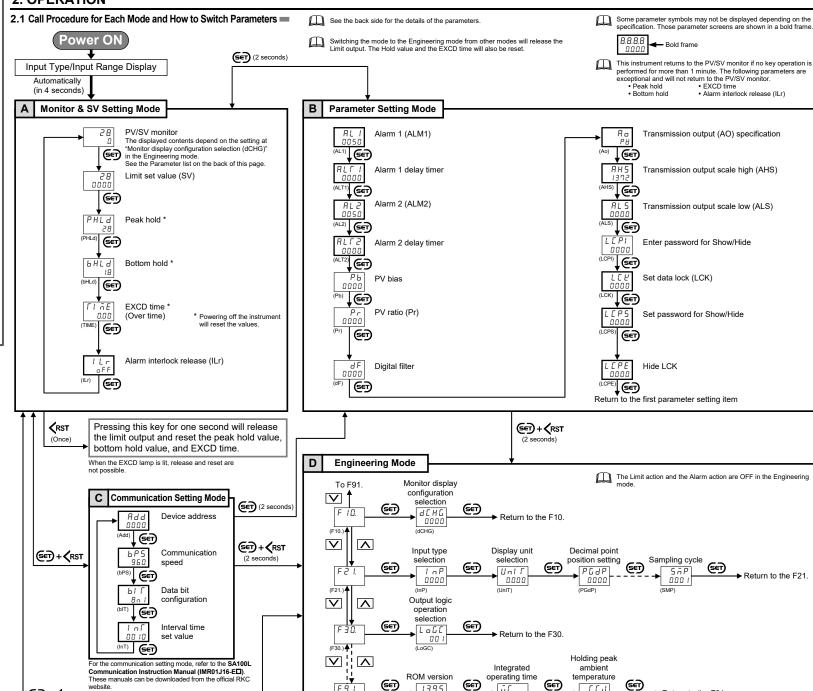
Press the UP key to change the 00<u>0</u>00 8 5

0

displayed.

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

2. OPERATION

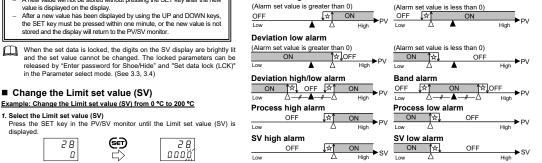


■ Change the Alarm set value

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

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



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
 Parameter setting mode.

28 AL I (2 seconds) 200 \Rightarrow Alarm 1 (ALM1) (Monitor & SV setting mode)

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.

f you don't want the locked data to be unlocked, you can use the "Hide LCK (Set data ock)" function to hide the "Set data lock (LCK)" The "Set data lock (LCK)" can be nidden by registering a desired password and perform the hide operation.

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.

(2 seconds)

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

(ET)

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AL J

Alarm 1 (ALM1)

(Parameter setting mode)

rd for Show/Hide" is displayed

LCPS

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LEPS 2024

LEPE

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

3.4 Hide LCK (Set data lock) Function =

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PV/SV monito

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

3. Enter password

(Monitor & SV setting mode)

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

(1) Register the password

RL I 0050 0050

F9 1.

(F91.)

To F10.

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."

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lacksquareRL I ا مَيْرَا م 0050

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

☞ ا پُرِر ا 0006 Alarm 1 delay time

■ 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 "E 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 & SLY cetting needs.

3. OPERATION

3.1 Operating Precautions

- All mounting and wiring must be completed before the power is turned on.
 The settings for the Limit set value (SV) and all parameters should be appropriate for the monitored object.
 This instrument has no power switch. When the power of this instrument is turned on,
- rins insuriment has no power swinter. Writer une power of time insuriment insuriment insuriment insuriment on, the limit output is turned on regardless of the measured value (PV).\footnote{PV}.\footnote{The Limit output ON state is retained until the Reset action is performed. First, press the <RST key once (or more than 1 second \(^2\)) to release the limit output, then start operating the equipment.
- You can also prevent the limit output from turning on. It can be changed by setting "Limit action at the time of power ON" and "Limit action hold action selection."

 Key operation differs depending on the setting in "<RST" (Reset) key operation time selection.

M NOTE Connect the input signal wiring and turn the power on. If the input signal wiring is not complete prior to turning the power on, the instru determines 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 value (SV) is changed. (It varies with the setting of the H

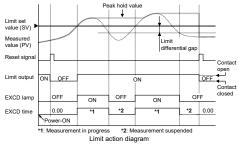
■ Limit action

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7 E J 2 B.O

ns 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.

→ Return to the F91.



3.2 Limit Output Release Operation

There are three ways to release the limit output as shown below.

• By key operation

• By communication (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

Press the <RST key once (or more than 1 second*) in the Monitor and SV setting mode to release the limit output. When the limit output is released, the OUT1 (or OUT2) lamp will turn off. * Key operation differs depending on the setting in "<RST" (Reset) key

operation time selection ■ Limit output release by contact input (optional)

Limit output can be released according to the open or closed stat the connector pin numbers 1 and 2 (DI1). Contact input

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

(2 seconds)

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The parameter displayed after the SET key is pressed depends on

Select the "Enter password for Show/Hide"
 Press the SET key several times until "Enter password for Show/Hide" is
 displayed.

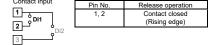
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Alarm 1 (ALM1) (Parameter setting mode)

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_	FIII INO.	Release operation	
1 	1. 2	Contact closed	1
°D11	-,-	(Rising edge)	1
		(Rising edge)	J
DI2			
3			
U			

(3) Show LCK (Set data lock) again

mode to enter to Parameter setting mode

200

PV/SV monitor (Monitor & SV setting mode)

the product specifications

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(2) Hiding the Set data lock (LCK) nds in the Monitor & SV setting mode to



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

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

LEPE € AL I

وروا و ۾ و و و Hide LCk 3. Change to "1: Lock" Press the UP key to change the number to 1

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

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

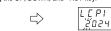
$I \Gamma P F$ إرْموه

RL I

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Enter the password Enter the password using the UP, DOWN, and <RST key $I \cap PI$





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LEPI € LCY



The password you entered at "Enter password for Show/Hide" will be reset to "0000" when you press the SET key to shift to the next set

■ Limit output release via communication (optional) The limit output can be released via co release (identifier: HR/address: 0009H)." Refer to the SA100L Communication Instruction Manual

(IMR01J16-E□) for "Limit action relea

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 1 []

 Select a set value from the table below and set it here. 0000 Set data lock (LCK) (Parameter setting mod

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 parame

- ne following parameters are not covered by the Set data lock
 Enter password for Show/Hide Hide LCK
 Set data lock (LCK)
 Set password for Show/I
 Parameter in the Communication settling mode

L C P S

3.5 Alarm Interlock Release Operation

M NOTE

se the alarm interlock when the Alarm is off.

■ Alarm interlock release by key operation

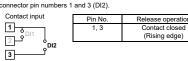
Press the DOWN key while pressing and holding the UP key at "Alarm interlock release (ILr)" in the Monitor & SV setting mode. This will release the Alarm interlock. The Output lamp (OUT1 or OUT2) and the Alarm lamp (ALM1 or ALM2) will go off when the Alarm interlock is released.



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■ Alarm interlock release by contact input (optional) The Alarm interlock can be released by the contact closure status of connector pin numbers 1 and 3 (DI2).



■ Alarm interlock release via communication (optional) The alarm interlock can be released by the "Alarm Interlock (identifier: IR/address: 000AH)" of the communication data.

For the "Alarm Interlock release (identifier: IR/address: 000AH)" of the communication data, refer to SA100L Communication
Manual (IMR01J16-E□).

4. ERROR DISPLAYS

■ Self-diagnostic error

Error code	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	
158	Watchdog timer error		

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



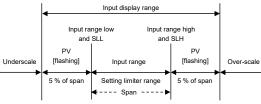
When a power supply voltage error occurs, nothing will be displayed on the screen. The Limit output and Alarm output will all go off.

(ILr)

(AL1)

■ Over-scale and Underscale

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



Display or data range

Data range

Alarm interlock state

FF: Alarm interlock release

rocess alarm, SV alarn

Same as input range. 1, 2

B. Parameter Setting Mode (2 seconds)

Alarm interlock

ease (ILr)

Alarm 1 (ALM1)

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)" displayed on the screen.

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 duct specifications







3. Shift the blinking digit

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





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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.



No. Symbol Name



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000)0

Д000 ГС Б

0: Engineering mode locked 1: Engineering mode unlocked

(Engineering mode)

6. PARAMETER LIST

Some parameters may not be displayed depending on the conditions. These parameter are displayed when you specify them when ordering or when you have made settings tuse the function. Parameters with "** in the name will be displayed only when all the display conditions are satisfied.

۱. ۱	/lonito	r & SV Setting	g Mode SEI) ———
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	ЬНL d (bHLd)	Bottom hold	Within input range ^{2, 4}	
5	(TIME)	EXCD time ⁵ (Over time)	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)	_

Depending of the setting of Monitor display configuration selection, one of the screens will be displayed.

2 Varies with the setting of the Decimal point position.

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

- Setting limiter [low limit] to Setting limiter [high limit]
 The display unit shows "- - -" if time exceeds 1000 minutes.

Function block 21 No. Symbol Name Data range

21		Device address	0 to 99	0				
22	(Add) 6P5 (bPS)	Communication speed	240: 2400 bps 480: 4800 bps 960: 9600 bps 1920: 19200 bps 3840: 38400 bps 5760: 57600 bps	960				
23	ЫГ (bIT)	Data bit configuration	See the following Data bit configuration table.	8n1				
24	l nl (InT)	Interval time set value	0 to 250 ms	10				
Data	Data hit configuration table							

C: Communication Setting Mode SET + RST

Data range

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

Not settable for Modbus



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	0: PV/SV display 1: Only PV display 2: 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 S 1 3: Thermocouple S 1 3: Thermocouple S 1 5: Thermocouple E 1 6: Thermocouple E 1 7: Thermocouple D 1 7: Thermocouple T 1 8: Thermocouple C (W5/ReW26Re) 1 9: Thermocouple U 1 11: Thermocouple U 1 11: Thermocouple L II 1 12: RTD P1100 1 13: RTD JP100 1 14: 0 10 5 V DC or 0 10 20 ADC 1, 2 15: 11 0 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 「 (UnlT)	Display unit selection	0: °C 1: °F	0
30	PGdP (PGdP)	Decimal point position setting	No digit below decimal point 1 digit below decimal point	Factory set value varies depending on the instrument
		TO/DTD : !!	2: 2 digits below decimal point 3: 3 digits below decimal point	specification.

¹ 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

Factory	set v	alu
		$\overline{}$

31	SLH (SLH)	Setting limiter [high limit]	-1999 to +9999 Set the Setting limiter by referring to the input range code table in the SA100L Installation Manual	Factory set value varies depending on the instrument specification.
32	SLL (SLL)	Setting limiter [low limit]	range with the Setting limiter.	Factory set value varies depending on the instrument specification.
33	SAP (SMP)	Sampling cycle	0: 250 ms (0.25 seconds) 1: 500 ms (0.5 seconds)	1
	(=)			

Data range

35	LoGE	Output logic	001: 0	DUT1:	Limit output	Factory set value
	(LoGC)	operation			(De-energized)	varies depending
		selection			OR output of Alarm 1	on the instrument
					and Alarm 2 (Energized)	specification.
			002: 0		Limit output	
					(De-energized) AND output of Alarm 1	
					and Alarm 2 (Energized)	
			003- 0		Limit output	
			000.		(De-energized)	
					Alarm 1 output	
					(Energized)	
			004: 0	DUT1:	Limit output	
					(De-energized)	
					OR output of Alarm 1 and	
					Alarm 2 (De-energized)	
			005: 0		Limit output	
			Ι,		(De-energized)	
					AND output of Alarm 1 and	
			006- 0		Alarm 2 (De-energized) Limit output	
			000.		(De-energized)	
					Alarm 1 output	
			`		(De-energized)	
			007: 0		Limit output	
					(De-energized)	
				OUT2:	Not output	
					(The Alarm state can be	
					checked via communication	
					or by lamp lighting)	
			008: 0		Limit output	
			Ι.		(Energized)	
					OR output of Alarm 1 and	
			000.		Alarm 2 (Energized)	
			009: 0		Limit output (Energized)	
					AND output of Alarm 1 and	
			,		Alarm 2 (Energized)	
			010- 0		Limit output	
			0.0.		(Energized)	
					Alarm 1 output	
					(Energized)	
			011: 0	DUT1:	Limit output	
					(Energized)	
					OR output of Alarm 1 and	
					Alarm 2 (De-energized)	
			012: 0		Limit output	
			Ι,		(Energized)	
					AND output of Alarm 1 and Alarm 2 (De-energized)	
			012: 0		Limit output	
			013.		(Energized)	
					Alarm 1 output	
			Ι `		(De-energized)	
			014: 0		Limit output	
			l		(Energized)	
					Not output	
					(The Alarm state can be	
					checked via communication	
					or by lamp lighting)	
					Transmission output	
					Limit output	
			l		(De-energized)	
		ı	1016: 0	DUT1:	Transmission output	1

OUT2: Limit output

(Energized)

			-Span to +Span 1 (However, within -1999 to +9999 digits)	inputs: 5.0
8	ALT I (ALT1)	Alarm 1 delay timer	0 to 9999 seconds ³	0
9	RL2 (AL2)	Alarm 2 (ALM2)	Process alarm, SV alarm: Same as input range. 1, 2 Deviation alarm: –Span to +Span 1 (However, within –1999 to +9999 digits)	TC/RTD inputs: 50 (50.0) Voltage/Current inputs: 5.0
10	ALT2)	Alarm 2 delay timer	0 to 9999 seconds 3	0
11	РЬ (Pb)	PV bias	-Span to +Span ¹ (However, within -1999 to +9999 digits)	TC/RTD inputs: 0 (0.0) Voltage/Current inputs: 0.0
12	Pr (Pr)	PV ratio (Pr)	0.500 to 1.500 times	1.000
13	dF (dF)	Digital filter	0 to 100 seconds (0: Digital filter OFF)	0
14	A□ (Ao)	Transmission output (AO) specification	PB: Measured value (PV) 5B: Limit set value (SV) dEB: Deviation (DEV)	PH
The time Exa	ting limite e actual de er unit val ample: Alar ese param	r [low limit] to Settin Play time is the valu- ue. m 1 delay timer (10 s	cimal point position. g limiter [high limit] e obtained by multiplying the delay timer va ec.) multiplied by (Alarm 1 delay timer unit) (30 splayed when either "Alarm 1 delay timer	sec.) = 300 sec.

Data range

				B. Paramete	er Setting Mode
Þ	No.	Symbol	Name	Data range	Factory set value
	15	RHS (AHS)	Transmission output scale high (AHS)	Measured value (PV): Same as input range 1, 2 Limit set value (SV): Same as input range 1, 2 Deviation (DEV): —Span to +Span 1, 3 (However, within —1999 to +9999 digits)	TC/RTD inputs: Input range high or +Span Voltage/Current inputs: 100.0
	16	ALS (ALS)	Transmission output scale low (ALS)	Measured value (PV): Same as input range 1, 4 Limit set value (SV): Same as input range 1, 4 Deviation (DEV): —Span to +Span 1, 5 (However, within —1999 to +9999 digits)	TC/RTD inputs: Input range low or – Span Voltage/Current inputs: 0.0
	17	LEPI (LCPI)	Enter password for Show/Hide	0000 to 9999 ⁶	0000
	18	(LCK)	Set data lock (LCK)	See "3.3 Set data lock (LCK)" for set values and locked parameters.	0000
	19	LEPS (LCPS)	Set password for Show/Hide	0000 to 9999	0000
	20	LEPE (LCPE)	Hide LCK	0: Unlock 1: Lock	0

K +1.			
provided larm	Factory set value varies	51	
arm nigh alarm ow alarm high alarm low alarm	depending on the instrument specification	52	
high/low alarm m		53	
larm hold action ne power is turned on. ne mode is switched from ineering mode to other	Factory set value varies depending on the instrument specification		
ne power is turned on. ne mode is switched from ineering mode to other		54	
ne Limit set value (SV) is		55	
in 1 99 digits or less)	TC/RTD inputs: 2 (2.0)	56	
	Voltage/Current inputs: 0.2	57	
rocessing urned on when abnormal	Alarm 1 not provided: 0 Alarm 1		
	provided:	1 Var ² "All	

0

A. Monitor & SV Setting Mode

Factory set value

TC/RTD inputs

50 (50.0)

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

Alarm 1 interlock

function selection

Alarm 1

lifferential gap

(AH1)

(ILS1)

0 (0.0) to Spar

0 to 60 seconds

Disable Alarm 1 interlock function

Enable Alarm 1 interlock function

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	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.
45	RH₀∂ (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	#H2 (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	RE₀2 (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	AFS2 (ATS2)	Alarm 2 delay timer unit	0 to 60 seconds 0: Alarm 2 delay timer function OFF	0

Symbol	Name	Data range	Factory set value
F42. (F42.)	Function block 42	This is the first parameter symbol of Function block 42.	_
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.
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
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
RE₀2 (AEo2)	Alarm 2 process abnormality action selection	Normal processing Forcibly turned on when abnormal	Alarm 2 not provided: 0 Alarm 2 provided: 1
1 L 52 (ILS2)	Alarm 2 interlock function selection	Disable Alarm 2 interlock function Enable Alarm 2 interlock function	0
`Arsá	Alarm 2 delay	0 to 60 seconds	0

No.	Symbol	Name	Data range	Factory set value
50	F5 I. (F51.)	Function block 51	This is the first parameter symbol of Function block 51.	_
51	a5 (oS)	Limit action type selection	C: Limit action (high limit) Limit action (low limit)	0
52	аН (оН)	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 (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	1
56	(rTIM)	" <rst" (reset)<br="">key operation time selection</rst">	O: Press and hold (for one second) 1: Press once	1
57	rSEL (rSEL)	Reset action selection	All data is reset on each monitoring screen ² Each data is reset on each monitoring screen ²	0

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

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				

vnen the set value o	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	F5 I. (F61.)	Function block 61	This is the first parameter symbol of Function block 61.
59		Communication protocol selection	0: RKC standard protocol 1: Modbus protocol 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	1395 (1395)	ROM version	Display the version of loading software.	_
62	آر (WT)	Integrated operating time	0 to 99999 hours	_
63	(TCJ)	Holding peak ambient	-256.0 to +256.0 °C	_

The first edition: FEB. 2024 [IMQ00]

