Ramp/Soak Controlle

Parameter PZ400/PZ900/PZ401/PZ901 List

IMR03B03-E2 All Rights Reserved, Copyright © 2019, RKC INSTRUMENT INC. Thank you for purchasing this RKC product. 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. This manual describes the parameter of the PZ400/900/401/901.

For detailed handling procedures and key operations, refer to separate PZ400/PZ900/PZ401/PZ901 Instruction Manual. The manual can be downloaded from the official RKC website: https://www.rkcinst.co.jp/english/download-center/

Notes for the display

. See the following legends for the key operations described in this manual

Legend

- Legend
 X: Press X key once
 Press X (n times): Press A key n times
 X (n seconds): Press and hold X key for n seconds or more.
 X+Y: Press X and Y keys simultaneously
 X+Y (n seconds): Press and hold X and Y keys simultaneously for n seconds or more
- . The PV/SV monitor screen in the Monitor and Program setting mode is the base screen of this instrument. The PV/SV monitor screen can be reached from any screens by any of the following operations.

-MONI
-RESET (When in control, the instrument will stop)
-SET+<MODE
-No key operated for 60 seconds.

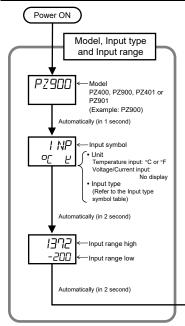
- When a number is displayed in the second row in the Symbol field of the Parameter List,
- Parameters with "♣" in the Name will be displayed only when all the display conditions
- The numbers in the No. field of PARAMETER LIST means "Screen number" and is used when the screen is registered with the Parameter select function.

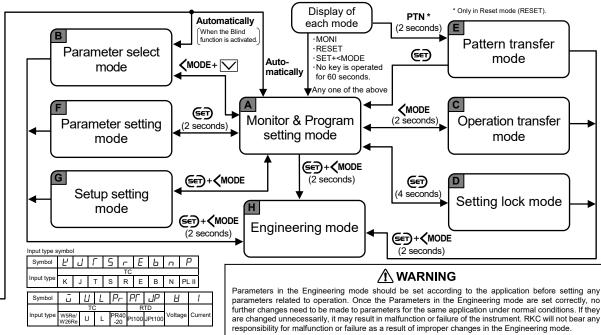
Data range

PV display unit: Input range low – (5 % of input span) to Input range high + (5 % of input span)

set value

1. SWITCHING BETWEEN MODES





2. PARAMETER LIST

A. Monitor & Program Setting Mode

Name

V/SV monitor

■ Reset mode (RESET)

Symbol

it means a segment number.

			[Varies with the setting of the Decimal point position.]	
			PTN display unit: Pattern number SEG display unit: Segment number	
16	LEVEL	Segment 1 level	Setting limiter low to Setting limiter high	0
	1		[Varies with the setting of the Decimal point position.]	
17	ГІ МЕ	Segment 1 time	0 hours 00 minutes	0:00
	1		to 199 hours 59 minutes or 0 minutes 00 seconds	(0 hour 00 minutes)
			to 199 minutes 59 seconds 200:00:Continuous* (FI [⊔] is	
			displayed) * Settable only in Soak segments.	
			However, segment 1 cannot be	
			set to Continuous operation. [Time unit depends on the time unit	
16	1 51/51	Segment 2 to 16	of the setting] Level and Time of segments 2	to 16 are
	LEVEL ≥ to 16	level *	alternately displayed. The data range is the same as the	e Seament 1
17	, FI ME	Segment 2 to 16 time	Level and the Segment 1 Time.	3
18	2 to 16 P.ENd	Pattern end	1 to 16	16
40		D. II.	Displays the last segment of the pattern.	0.00
46	ENd.FM	output time	0 hours 00 minutes to 199 hours 59 minutes or	0:00 (0 hour
		*	0 minutes 00 seconds to 199 minutes 59 seconds	00 minutes)
			0:00: Output remains on [Time unit depends on the time unit	
20		Time simus! 4	of the setting]	4
30	0 I.S.SN	Time signal 1 start segment	1 to 16	1
31	O 1.5.ГМ	number ♣ Time signal 1	0 hours 00 minutes	0:00
	۱۱ ډي. د	start time	to 199 hours 59 minutes or 0 minutes 00 seconds	(0 hour 00 minutes)
			to 199 minutes 59 seconds [Time unit depends on the time unit	,
00		Time 1 m - 2 d	of the setting]	
32	0 I.E.SN	Time signal 1 end segment	1 to 16	1
33	ПІСГМ	number Time signal 1 end time	0 hours 00 minutes	0:00
	וו גאו ט	end time	to 199 hours 59 minutes or 0 minutes 00 seconds	(0 hour 00 minutes)
			to 199 minutes 59 seconds [Time unit depends on the time unit	
			of the setting]	
34	02.5.SN	Time signal 2 start segment	Same as Time signal 1 start segmen	t number
35	плссм	number	Same as Time signal 1 start time	
36	02.5.FM	start time *	Same as Time signal 1 end segment	number
30	02.E.SN	end segment number	Jame as Time signal Tend segment	number
37	02.E.F.M	Time signal 2	Same as Time signal 1 end time	
38	03.5.5N	end time Time signal 3	Same as Time signal 1 start segmen	t number
	אוב.ב.בט	start segment number &		
39	03.S.ГМ		Same as Time signal 1 start time	
40	03.E.SN	Time signal 3	Same as Time signal 1 end segment	number
		number 🚓		
41	03.E./M	Time signal 3 end time	Same as Time signal 1 end time	
42	04.5.SN	Time signal 4 start segment	Same as Time signal 1 start segmen	t number
43	חוובבא	number ♣ Time signal 4	Same as Time signal 1 start time	
44	04.5.FM	start time *		number
44	04.E.SN	end segment	Same as Time signal 1 end segment	numper
45	ОЧ.Е.ГМ	number ♣ Time signal 4	Same as Time signal 1 end time	
22		end time	Deviation:	TC/RTD
	EV I	(EV1) Event 1 set value	-Input span to +Input span [Varies with the setting of the	inputs: 10 V/I inputs:
		(EV1) [high]	Decimal point position.]	5 % of input span
			Input value or Set value: Input range low to Input range high	at opair
			[Varies with the setting of the Decimal point position.]	
			Manipulated output value: -5.0 to +105.0 %	50.0
23	EV I'	Event 1 set value (EV1') [low]	Deviation: -Input span to +Input span	TC/RTD inputs: -10
		(LV1)[IOW]	Input value: Input range low to Input range high	V/I inputs: -5 % of
			[Varies with the setting of the	input span
24	EV2	Event 2 set value	Decimal point position.] Same as Event 1 set value (EV1)/Ev	ent 1 set
	,	Event 2 set value	value (EV1) [high]	
25	ורעם	(EV2) [high] ♣ Event 2 set value	Same as Event 1 set value (EV1') [lo	wl
26	EV2'	(EV2') [low] ♣ Event 3 set value	Same as Event 1 set value (EV1)/Ev	
20	EV3	(EV3)	value (EV1) [high]	ont i Set
		Event 3 set value (EV3) [high] *		
27	EV3'	Event 3 set value (EV3') [low] *	Same as Event 1 set value (EV1') [lo	w]
28	ЕVЧ	Event 4 set value (EV4)	Same as Event 1 set value (EV1)/Ev value (EV1) [high]	ent 1 set
	1	Event 4 set value	V Friending	
		(EV4) [hiah] ♣		
29	EV4'	(EV4) [high] ♣ Event 4 set value (EV4') [low] ♣	Same as Event 1 set value (EV1') [lo	w]

No.	Symbol	Name	Data range	set value
19	RPC.PN	Number of	1 to 1000 times	1
		repeating patterns	1000: Continuous operation	
20	I NK PN		0 to 16	0
	,	number	0: No link	

■ Program control mode (RUN)

No.	Symbol	Name	Data range	Factory set value
1	_	PV/SV monitor	PV display unit: Input range low - (5 % of input span) to Input range high + (5 % of input span) [Varies with the setting of the	1
			Decimal point position.] SV display unit: Segment level (SV monitor)	
			TIME display unit: Segment remaining time Manipulated output value	
			PTN display unit: Pattern number SEG display unit: Segment number	
_	LEVEL	Segment level in progress	Setting limiter low to Setting limiter high [Varies with the setting of the Decimal point position.]	0
	ΓI ME	Segment time in progress	0 hours 00 minutes to 199 hours 59 minutes or 0 minutes 00 seconds to 199 minutes 59 seconds 200:00: Continuous * (F! ½' is displayed) * Settable only in Soak segments	0:00 (0 hour 00 minutes)
			However, segment 1 cannot be set to Continuous operation.	
			[Time unit depends on the time unit of the setting]	

Fixed set point control mode (FIX)

l	No.	Symbol	Name	Data range	Factory set value
	1		PV/SV monitor	PV display unit: Input range low - (5 % of input span) to Input range high + (5 % of input span) [Varies with the setting of the	1
				Varies with the setting of the Decimal point position.] SV display unit: Set value (SV) in Fixed set point control mode TIME display unit: Manipulated output value	
		_	Set value (SV) in Fixed set point control mode	Setting limiter low to Setting limiter high [Varies with the setting of the Decimal point position.]	0

	M	anua	co	ntrol	mode	(MA	N)
1							

No.	Symbol	Name	Data range	set value
1	_	PV/SV monitor	PV display unit: Input range low – (5 % of input span) to Input range high + (6 % of input span) [Varies with the setting of the Decimal point position.] SV display unit: Manual manipulated output value (Settable): –5.0 to +105.0 % TIME display unit: Manipulated output value	

■ Monitor mode

No.	Symbol	Name	Data range	Factory set value
2	RPC.PN	Number of repeating patterns monitor	1 to 1000 times 1000: Continuous operation	
3	RENJM	Pattern remaining time monitor	0 hours 00 minutes to 999 hours 59 minutes or 0 minutes 00 seconds to 999 minutes 59 seconds [Time unit depends on the time unit of the setting]	_
4	MV	Manipulated output value monitor [heat-side]	-5.0 to +105.0 %	_
5	MVc	Manipulated output value monitor [cool-side]	-5.0 to +105.0 %	_
6	בר ו	Current transformer 1 (CT1) input value monitor	0.0 to 100.0 A	_
7	כרפ	Current transformer 2 (CT2) input value monitor	0.0 to 100.0 A	_
8	EVENT	Comprehensive event state	When an event occurs, the character of the occurring event is displayed on the Set value (SV) display unit. If two or more events occur at the same time, the relevant characters are displayed alternately every 0.5 seconds. EBF 1: Event 1 EBF 2: Event 1 EBF 3: Event 2 EBF 3: Event 3 HbB71: Heater break alarm 1 (HBA1) HeB72: Heater break alarm 2 (HBA2) LbF: Control loop break alarm (LBA) InPLIP: Input error high InPLIP: Input error low	_

B. Parameter Select Mode

Up to 16 user specified screens can be displayed. Refer to the separate instruction manual for the PZ400/PZ900/PZ401/PZ901

		·	When the Autotuning (AT) is finished, the control will automatically return to "aFF."	
13	LV.ACU	Overall level autotuning (AT)	oFF: Overall level autoturing (AT) OFF on: Overall level autoturing (AT) ON When the Overall level autoturing (AT) is finished, the control will automatically return to "oFF."	oFF
14	5FU	Startup tuning (ST)	oFF: ST unused on I: Execute once * on∂: Execute always * When the ST is finished, the control will automatically return to "oFF."	oFF
15	ILR	Interlock release	aFF: Interlock release an: Interlock state	oFF

-Un: =| <u>!</u>:

oFF: Normol state

Step PID control

Data range

Program control mode (RUN Fixed set point control mode

(FIX) 'Manual control mode (MAN

-ESEF: Reset mode (RESET)

D. Setting Lock Mode No. Symbol Name

C. Operation Transfer Mode

ModE

SEEF

ALN

INO.	Syllibol	Ivallie	Data range	set value
1	LoEK	Set data unlock/lock transfer	aFF: Unlock state an: Lock state	oFF
	LCKLV	Set lock level	0: Unlock 1: Lock 1: Lock 1- SV display unit 1- Program setting mode + Parameter select mode Operation transfer mode Parameter setting mode Setup setting mode Engineering mode Set Lock/Unlock at each digit.	00000
_	PF1 N9	Select Blind function	aFF: Blind function: OFF an: Blind function: ON	oFF
_	PSL.d	Parameter select direct registration	aFF: Direct registration: OFF an: Direct registration: ON	oFF
_	PSLO I	Parameter select setting 1	0 to 254 (Screen No.) 0: No registration	0
_	:	:	:	
_	PSL 16	Parameter select setting 16	0 to 254 (Screen No.) 0: No registration	0

E. Pattern transfer mode

No.	Symbol	Name	Data range	Factory set value				
9	PCN	Execution pattern selection *	1 to 16	1				
E. Barran et al. Cattlers Martin								

Data range

F. Parameter Setting Mode

Name

Symbol

_	Pn00	Parameter group No. 00	This is the first parameter symbol of Parameter group No. 00.	_
_	PCN	Pattern selection	1 to 16	1
_	SEL.SG	Segment selection	1 to 16	1
16	LEVEL	Segment level	Setting limiter low to Setting limiter high [Varies with the setting of the Decimal point position.]	0
17	ΓΙ ME	Segment time	0 hours 00 minutes or to 199 hours 59 minutes or 0 minutes 00 seconds to 199 minutes 59 seconds 200:00: Continuous * (F! \(\tilde{F} \) is displayed) * Settable only in Soak segments. However, segment 1 cannot be set to Continuous operation. [Time unit depends on the time unit of the setting]	0:00 (0 hour 00 minutes)
18	P.ENd	Pattern end	1 to 16 Displays the last segment of the pattern.	16
19	RPT.PN	Number of repeating patterns	1 to 1000 times 1000: Continuous operation	1
20	LNK.PN	Pattern link number	0 to 16 0: No link	0
_	Pn0 I	Parameter group No. 01	This is the first parameter symbol of Parameter group No. 01.	_
21	5 <i>V</i>	Set value (SV) in Fixed set point control mode	Setting limiter low to Setting limiter high [Varies with the setting of the Decimal point position.]	0
_	Pn40	Parameter group No. 40	This is the first parameter symbol of Parameter group No. 40.	_
_	PFN	Pattern selection	1 to 16	1
22	EV I	Event 1 set value (EV1) Event 1 set value (EV1) [high]	Deviation: -Input span to +Input span [Varies with the setting of the Decimal point position.] Input value or Set value:	TC/RTD inputs: 10 V/I inputs: 5 % of input span

Input range low to Input range high [Varies with the setting of the Decimal point position.]

Manipulated output value: -5.0 to +105.0 %

-Input span to +Input span Input value: Input range low to Input range high

/aries with the setting of the ecimal point position.]

eviation:

EV I

(EV1') [low]

50.0

TC/RTD inputs: –10 V/I inputs: –5 % of

-Pf

	No	,	Name	Data range	Factory set value
	24	EV2	Event 2 set value (EV2) Event 2 set value (EV2) [high]	Same as Event 1 set value (EV1)/Ev value (EV1) [high]	ent 1 set
	25	EV.C.	Event 2 set value (EV2') [low] *	Same as Event 1 set value (EV1') [lo	w]
	26	EV3	Event 3 set value (EV3) Event 3 set value (EV3) [high]	Same as Event 1 set value (EV1)/Ev value (EV1) [high]	ent 1 set
	27	EV3'	Event 3 set value (EV3') [low] ♣	Same as Event 1 set value (EV1') [lo	w]
_	28	EV4	Event 4 set value (EV4) Event 4 set value (EV4) [high]	Same as Event 1 set value (EV1)/Ev value (EV1) [high]	ent 1 set
	29	EV4'	Event 4 set value (EV4') [low] *	Same as Event 1 set value (EV1') [lo	w]
	_	,	1_	I	
1		Pn47	Parameter group No. 47	This is the first parameter symbol of Parameter group No. 47.	_
	-	PEN	Pattern selection	1 to 16	1

rESE

oFF

Factory

					40		
		30	0 I.S.SN	Time signal 1 start segment number	*	1 to 16	1
_		31	0 I.S.FM	start time	*	0 hours 00 minutes to 199 hours 59 minutes or 0 minutes 00 seconds to 199 minutes 59 seconds [Time unit depends on the time unit of the setting]	0:00 (0 hour 00 minutes)
•		32		Time signal 1 end segment number		1 to 16	1
		33		Time signal 1 end time	*	0 hours 00 minutes to 199 hours 59 minutes or 0 minutes 00 seconds to 199 minutes 59 seconds [Time unit depends on the time unit of the setting]	0:00 (0 hour 00 minutes)
		34		Time signal 2 start segment number	*	Same as Time signal 1 start segment	number
		35	02.5.FM	Time signal 2 start time	*	Same as Time signal 1 start time	
		36	02.E.SN	Time signal 2 end segment number		Same as Time signal 1 end segment	number
		37	02.E.CM	Time signal 2 end time	*	Same as Time signal 1 end time	
		38	03.5.5N	Time signal 3 start segment number		Same as Time signal 1 start segment	number
	1	39	03.5.FM	Time signal 3 start time	*	Same as Time signal 1 start time	
		40	03.E.SN	Time signal 3 end segment number		Same as Time signal 1 end segment	number
		41	03.Е.ГМ	end unie	*	Same as Time signal 1 end time	
		42	04.5.5N	number	*	Same as Time signal 1 start segment	number
		43	04.5.FM	Time signal 4	•	Same as Time signal 1 start time	

_	ĺ	_	Pn48		This is the first parameter symbol of Parameter group No. 48.	-
	1	_	PFN	*	1 to 16	1
		46	ENJ.FM	Pattern end output time	0 hours 00 minutes to 199 hours 59 minutes or 0 minutes 00 seconds to 199 minutes 59 seconds :0:00: Output remains on [Time unit depends on the time unit of the setting]	0:00 (0 hour 00 minutes)
s)		_	PnS I		This is the first parameter symbol of	_

ne as Time signal 1 end segment number

ame as Time signal 1 end time

04.E.SN

45 UHELTM Time signal 4 end time

Time signal 4 end segmen

_	PnS I	Parameter group No. 51	This is the first parameter symbol of Parameter group No. 51.	_
47	Р	Proportional band [heat-side]	TC/RTD inputs: 0 (0.0, 0.00) to Input span (Unit: °C (°F)) [Varies with the setting of the Decimal point position.] Voltage (V)/Current (I) inputs: 0.0 to 1000.0 % of Input span 0 (0.0, 0.00): ON/OFF action	TC/RTD inputs: 30 V/I inputs: 3.0
48	I	Integral time [heat-side]	PID control or Heat/Cool PID control: 0 to 3600 seconds, 0.0 to 3600.0 seconds or 0.00 to 360.00 seconds 0 (0.0, 0.00): PD action Position proportioning PID control: 1 to 3600 seconds, 0.1 to 3600.0 seconds or 0.01 to 360.00 seconds (Varies with the setting of the Integral/ Derivative time decimal point position.]	240
49	Ь	Derivative time [heat-side]	0 to 3600 seconds, 0.0 to 3600.0 seconds or 0.00 to 360.00 seconds 0 (0.0, 0.00): PI action [Varies with the setting of the Integral/ Derivative time decimal point position.]	60
50	οНΗ	ON/OFF action differential gap (upper)	TC/RTD inputs: 0 (0.0, 0.00) to Input span (Unit: *C [*F]) [Varies with the setting of the Decimal point position.] Voltage (V)/Current (I) inputs: 0.0 to 100.0 % of Input span	TC/RTD inputs: 1 V/I inputs: 0.1
51	aНL	ON/OFF action	Same as ON/OFF action differential of	gap (upper)

): Slow I: Medium 2: Fast

When the P or PD action is selected

No.	Symb	ool Name	Data range	Factory set value	No.	Symbol	Name	Data range	Factory set value	No.	Symbol	Name	Data range	Factory set value	No.	Symbol Name	Data range	Factory set value
53	PR		0 to 4 • 0: No function	2	95	Z _o NE.L	Wait zone low	TC/RTD inputs - Input span to 0 (0.0, 0.00)	0	_	SnS7	Setting group No. 57	This is the first parameter symbol of Setting group No. 57.	—		Fn23 Function block No. 23	This is the first parameter symbol of Function block No. 23	
54 55		MR Manual reset	-100.0 to +100.0 %	0.0				(Unit: °C [°F]) [Varies with the setting of the Decimal point position.]		122	FFSI	FF amount learning	0 to 1 0: No learning	0	147	dl SL I DI1 function selection	0: No function 1: Reset mode (RESET) setting	1
56		ГГ , _Н Output limiter hi	-100.0 to +100.0 % Dutput limiter low [heat-side]	0.0 105.0				Voltage (V)/Current (I) inputs -100.0 to 0.0 % of Input span 0 (0.0, 0.00): Wait zone low OFF		123	E×du	Determination point of external	+1: Learn -Input span to +Input span	-1	1		 2: Program control mode (RUN) setting 3: Step function 	
57		! ! Output limiter lo	# IO 103.0 %	-5.0	G S	Setup S	Setting Mod	e	'			disturbance	[Varies with the setting of the Decimal point position.]]		4: Hold function 5: Interlock release 6: Peak/Bottom hold reset	
58	L	Control loop break alarm	0 to 7200 seconds 0: No function	0 or 480	No.	Symbol	Name	Data range	Factory set value		5n9 I	Setting group No. 91	This is the first parameter symbol of Setting group No. 91.	_]		7: Autotuning (AT) 8: Set data unlock/lock transfer	
59	L	(LBA) time LBA deadband (LBD)	*	0	_	Sn00	Setting group No. 00	This is the first parameter symbol of Setting group No. 00.		124	PHLo	Peak hold monit	Input range low – (5 % of input span) to Input range high + (5 % of input span)	_			9: Direct/Reverse action transfer 10: Program pattern No. switching (2 patterns without SET)	
		(LDD)	point position.]		96	SF.SV	SV selection at program start	0: Zero start 1: PV start	0				[Varies with the setting of the Decimal point position.]				11: Program pattern No. switching (8 patterns without SET) 12: Program pattern No. switching	
Щ	PnS:	NO. 55	A Parameter group No. 53.	_	97	Pd	Hot/Cold start	2: PV start (time saving) 0: Hot start 1	0	125	ЬНLс	Bottom hold monitor Peak/Bottom hol	Same as Peak hold monitor				(8 patterns with SET) 13: Program pattern No. switching	
60	PI d.	PID group selection Proportional ba	1 to 8 TC/RTD inputs:	TC/RTD				1: Hot start 2 2: Cold start 3: Reset start		120	HLdR	reset	Id HoLd: Hold rESEF: Reset Returns to Hold state automatically	HoLd			(16 patterns without SET) 14: Program pattern No. switching (16 patterns with SET)	
		[heat-side]	0 (0.0, 0.00) to Input span (Unit: °C [°F]) [Varies with the setting of the	inputs: 30	98	ENd.P	Control action at pattern end	PID control, Heat/Cool PID control or Position proportioning PID control					after reset.		148	dl 5L2 Dl2 function selection	0 to 9 Same as DI1 function selection (0 to 9)	2
			Decimal point position.] Voltage (V)/Current (I) inputs:	V/I inputs: 3.0				(With FBR input): 0: Control continued 1: Control stop		H. E	Engine	ering Mode			149	dl 5L 3 Dl3 function selection	0 to 9 Same as DI1 function selection (0 to 9)	3
61		, Integral time	0.0 to 1000.0 % of Input span 0 (0.0, 0.00): ON/OFF action PID control or Heat/Cool PID control:	240				Position proportioning PID control (When there is no FBR input or the		No.	Symbol	Name Function block	Data range This is the first parameter symbol of	Factory set value	150	dl 5L 4 Dl4 function selection	0 to 9 Same as DI1 function selection (0 to 9)	4
		[heat-side]	0 to 3600 seconds, 0.0 to 3600.0 seconds or	240				FBR input is break): 0: Control continued 1: Open-side output OFF,		127	Fn00 FM:SL	No. 00 Time unit of the	Function block No. 00 0: Hour : Minute	0	151	dl SLS DI5 function selection	0 to 9 Same as DI1 function selection (0 to 9)	5
			0.00 to 360.00 seconds 0 (0.0, 0.00): PD action Position proportioning PID control:					Close-side output OFF 2: Open-side output OFF, Close-side output ON		128		setting Segment setting	1: Minute : Second 0: Change type 1	0	152	dl SLB DI6 function selection	0 to 9 Same as DI1 function selection (0 to 9)	8
			1 to 3600 seconds, 0.1 to 3600.0 seconds or 0.01 to 360.00 seconds					3: Open-side output ON, Close-side output OFF		129		Store segment	1: Change type 2 0: Store setting	0	153	d I NV DI logic invert	0: No logic invert	0
			[Varies with the setting of the Integral/ Derivative time decimal point position.]		99	ENd.R.E	Output action at pattern end	0 to 7 0: OFF	7	\vdash	Fn 10	setting change Function block	Do not store setting This is the first parameter symbol of	_]		+1: Set data unlock/lock transfer +2: Direct/Reverse action transfer	
62		Derivative time [heat-side]	0 to 3600 seconds, 0.0 to 3600.0 seconds or 0.00 to 360.00 seconds	60				+1: Logic calculation output: Action continues +2: Retransmission output:		130	RLC	No. 10 ALM lamp	Function block No. 10. 0 to 511	127	╢		To select two or more functions, sum each value.	
			0 (0.0, 0.00): PI action [Varies with the setting of the Integral/					Action continues +4: Instrument status output: Action continues				lighting condition	0: OFF +1: Event 1 +2: Event 2		<u> </u>	Fn30 Function block No. 30	Function block No. 30	\perp
63	0	HH ON/OFF action differential gap	Derivative time decimal point position.] TC/RTD inputs: 0 (0.0, 0.00) to Input span	TC/RTD inputs:	F	5n 10	Setting group	This is the first parameter symbol of	f —				+4: Event 3 +8: Event 4		154	a5L / OUT1 function selection	0: No assignment 1: Control output [heat-side] or [open-side]	Based on Model code
		(upper)	(Unit: °C [°F]) (Varies with the setting of the Decimal point position.]	1 V/I inputs:	100	PVEY	No. 10 Display update cycle	Setting group No. 10. 1: 50 ms 6: 300 ms 2: 100 ms 7: 350 ms	1				+16: Heater break alarm 1 (HBA1) +32: Heater break alarm 2 (HBA2) +64: Control loop break alarm				2: Control output [cool-side] or [close-side] 3: Retransmission output	
			Voltage (V)/Current (I) inputs: 0.0 to 100.0 % of Input span	0.1				2: 100 ms 7: 350 ms 3: 150 ms 8: 400 ms 4: 200 ms 9: 450 ms					(LBA) +128: Input error high +256: Input error low				 Logic calculation output (Event, HBA, LBA, Input error) 	
64	0	HL ON/OFF action differential gap	Same as ON/OFF action differential	gap (upper)		5n2 l	Setting group	5: 250 ms 10: 500 ms This is the first parameter symbol of	f				To select two or more functions, sum each value.				Output of Program control mode (RUN) state Output of Manual control mode	
65	٦	Control respons	1: Medium	2	101	Snc i Pb	No. 21 PV bias	Setting group No. 21. -Input span to +Input span	0	131	dSoF	PV flashing display at input error	Flashing display Non-flashing display	0			(MAN) state 7: Autotuning (AT) state output 8: Output of the communication	
			2: Fast [When the P or PD action is selected, this setting becomes invalid]				DV P	[Varies with the setting of the Decimal point position.]		132	d5.MaN	Select hide items in Monitor	0 to 31 0: Show all	0			monitoring result 9: FAIL output (Permanently	
66	PR	Proactive intensity	0 to 4 • 0: No function	2	102	dF	PV digital filter PV ratio	0.0 to 100.0 seconds 0.0: Filter OFF 0.500 to 1.500	1.000			mode	+1: Number of repeating patterns monitor		155	aSL 2 OUT2 function selection	configured to be de-energized)	Based on Model code
67		Manual reset	-100.0 to +100.0 %	0.0	104	PR PLC	PV low input	0.00 to 25.00 % of Input span	0.00				+2: Pattern remaining time monitor +4: Manipulated output value (MV) monitor		156	OUT3 function selection	Same as OUT1 function selection	3
68 69		FF amount I H Output limiter hi	-100.0 to +100.0 %	105.0	F	5n30	Setting group	This is the first parameter symbol of	f —				+8: Current transformer (CT) input value monitor +16: Comprehensive event state		157	OUT1 logic calculation selection	0 to 511 0: OFF +1: Event 1	0
70	0	[rieat-side]	0 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-5.0	105		No. 30	Setting group No. 30. 0.1 to 100.0 seconds	Relay contact	'_			To select two or more functions, sum each value.				+2: Event 2 +4: Event 3	
71		LA Control loop break alarm	Output limiter high [heat-side] 0 to 7200 seconds 0: No function	0 or 480					output: 20.0 Voltage	133	d5.Mac	Select hide items in Operation	0 to 31 0: Show all	0			+8: Event 4 +16: Heater break alarm 1 (HBA1) +32: Heater break alarm 2 (HBA2)	
72	,	(LBA) time	0 to Input span	0					pulse output, Transistor output:			transfer mode	+1: Operation mode transfer +2: Step function +4: Autotuning (AT)				+64: Control loop break alarm (LBA) +128: Input error high	
	L	(LBD)	[Varies with the setting of the Decimal point position.]		106	Γ <i>2</i>	OUT2 proportional	Same as Proportional cycle time of	2 0 or 20 0				+8: Overall level autotuning (AT) +16: Startup tuning (ST) To select two or more functions. sum				+256: Input error low To select two or more functions, sum	
	PnS8	No. 56	This is the first parameter symbol of Parameter group No. 56.	_	107	_	Cycle time OUT3 proportional		Voltage	134	dS.PRC	Select hide	each value. 0 to 31	0	158	OUT2 logic	each value. Same as OUT1 logic calculation	0
74		Pc Proportional ba	nd TC/RTD inputs: 1 (0.1, 0.01) to Input span (Unit: °C [°F])	TC/RTD inputs: 30	100		cycle ume		pulse output: 2.0 or 20.0		UJ.FRL	items in Program setting mode	0: Show all +1: Segment setting		159	selection	selection Same as OUT1 logic calculation	0
			[Varies with the setting of the Decimal point position.] Voltage (V)/Current (I) inputs:	V/I inputs: 3.0	106	MF I	OUT1 minimum ON/OFF time of proportional cycle	0 to 1000 ms	0			ootaing mode	+2: Pattern end output time +4: Time signal setting +8: Event setting		160	calculation selection	selection	
75		Integral time	0.1 to 1000.0 % of Input span 0 to 3600 seconds,	240	109	MF2	OUT2 minimum ON/OFF time of	0 to 1000 ms	0				+16: Repeat and link setting To select two or more functions, sum each value.		100	EXC Energized/ De-energized selection	0 to 127 0: All outputs are energized +1: OUT1 de-energized	0
		[cool-side]	 0.0 to 3600.0 seconds or 0.00 to 360.00 seconds 0 (0.0, 0.00): PD action 				proportional cycle				r 71	Function block	This is the first parameter symbol of		1		+2: OUT2 de-energized +4: OUT3 de-energized +8: DO1 de-energized	
			[Varies with the setting of the Integral/ Derivative time decimal point position.]		110	МГ∃	OUT3 minimum ON/OFF time of proportional cycle	0 to 1000 ms	0	135	Fn2 I I NA	No. 21 Input type	Function block No. 21 0: TC input K	Based on			+16: DO2 de-energized +32: DO3 de-energized	
76 77		Derivative time [cool-side]	Same as Derivative time [heat-side] TC/RTD inputs:	TC/RTD			*				, , ,,		1: TC input J 2: TC input R 3: TC input S	Model code			+64: DO4 de-energized To select two or more functions, sum each value.	
		Deadband	-Input span to +Input span (Unit: °C [°F]) [Varies with the setting of the	inputs: 0	111	5n45	Setting group No. 45 * Heater break	This is the first parameter symbol of Setting group No. 45. 0.0 to 100.0 A	0.0				4: TC input B 5: TC input E 6: TC input N		161	I L 5 Interlock selection	0 to 511 0: OFF	0
			Decimal point position.] Voltage (V)/Current (I) inputs: -100.0 to +100.0 % of Input span	V/I inputs: 0.0		HbR I	alarm 1 (HBA1) set value .	0.0: HBA function OFF					7: TC input T 8: TC input W5Re/W26Re				+1: Event 1 +2: Event 2 +4: Event 3	
			-100.0 to +100.0 % of Input span Minus (-) setting results in Overlap. However, the overlapping range is		112	ньс і	Number of heater break alarm 1 (HBA1) delay	0 to 255 times	5				9: TC input PLII 10: TC input U 11: TC input L				+8: Event 4 +16: Heater break alarm 1 (HBA1)	
78	οL		within the proportional range. Couput limiter low [cool-side] to 105.0 %	105.0	H		times	This is the first parameter symbol of	<u> </u>				12: TC input PR40-20 13: RTD input Pt100 14: RTD input JPt100				+32: Heater break alarm 2 (HBA2) +64: Control loop break alarm (LBA)	
79	οL	. Output limiter lo		-5.0	113	5n46 Hb82	No. 46 &	Setting group No. 46. 0.0 to 100.0 A	0.0				15: Current input 0 to 20 mA DC 16: Current input 4 to 20 mA DC 17: Voltage input 0 to 10 V DC				+128: Input error high +256: Input error low	
	PnSt	Parameter grou	This is the first parameter symbol of Parameter group No. 58.	_	444		alarm 2 (HBA2) set value ♣	0.0: HBA function OFF					18: Voltage input 0 to 5 V DC 19: Voltage input 1 to 5 V DC		162	55 Output action	To select two or more functions, sum each value. 0 to 7	0
	Pl d.	LV PID group selection	1 to 8	1	114	HPC5	Number of heater break alarm 2 (HBA2) delay	0 to 255 times	5				20: Voltage input 0 to 1 V DC 21: Voltage input –10 to +10 V DC 22: Voltage input –5 to +5 V DC			in Reset mode	0: OFF +1: Logic calculation output:	
80		Pc Proportional ba	nd TC/RTD inputs: 1 (0.1, 0.01) to Input span	TC/RTD inputs:	F	5 40	times Setting group	This is the first parameter symbol of	F				23: Voltage input 0 to 100 mV DC 24: Voltage input 0 to 10 mV DC				Action continues +2: Retransmission output: Action continues	
			(Unit: °C [°F]) [Varies with the setting of the Decimal point position.]	30 V/I inputs: 3.0		5n49 PCN	No. 49 Pattern selection	Setting group No. 49.	1	136	LINI	*	0: °C 1: °F 0: No decimal place	Based on Model code Based on			+4: Instrument status output: Action continues	
81		ı _ Integral time	Voltage (V)/Current (I) inputs: 0.1 to 1000.0 % of Input span 0 to 3600 seconds,	240	115	EVaN	Event selection of	0: Unused	1111	131	PGdP	position	One decimal place Two decimal place	Based on Model code	100	Light of the second	To select two or more functions, sum each value.	
		[cool-side]	0.0 to 3600.0 seconds or 0.00 to 3600.0 seconds 0 (0.0, 0.00): PD action			1	the Segment 1	1: Used ODDDD SV display unit					Three decimal place Four decimal place TC inputs:		163	Universal output type selection	0: Voltage pulse output 1: Current output (4 to 20 mA DC) 2: Current output (0 to 20 mA DC)	1
			[Varies with the setting of the Integral/ Derivative time decimal point position.]					Event 1 Event 2					W5Re/W26Re, PR40-20: 0 (fixed) Thermocouples other than those		=	Fn3 I Function block	This is the first parameter symbol of	f —
82		dc Derivative time [cool-side]	Same as Derivative time [heat-side]	TO 25-				Event 3 Event 4 Unused					shown above: 0 to 1 RTD inputs: 0 to 2 Voltage (V)/Current (I) inputs:		164	No. 31	Function block No. 31 O: No retransmission output	0
83		Deadband	TC/RTD inputs: -Input span to +Input span (Unit: °C [°F])	TC/RTD inputs: 0	115	EI/ 1/2	Event selection of	Set Event at each digit.	ment 1	400		Input	In case of Input data type 0: 0 to 4 In case of Input data type 1: 0 to 3			output i type	1: Measured value (PV) 2: Segment level or Set value (SV) in Fixed set point control mode	
			[Varies with the setting of the Decimal point position.] Voltage (V)/Current (I) inputs:	V/I inputs: 0.0		EVaN 2 to 16	the Segment 2 to	Screens for Event selection of the	Segments 2 to	138	PGSH	Input range high	(Input range low + 1digit) to Maximum value of input range [Varies with the setting of the Decimal	Based on Model code			3: SV monitor value 4: Deviation 5: Manipulated output value	
			-100.0 to +100.0 % of Input span Minus (-) setting results in Overlap. However, the overlapping range is				<u> </u>	16 will be displayed up to the Segm pattern end is set.		139	PGSL		point position.] Minimum value of input range	Based on	-		[heat-side] 6: Manipulated output value	
84	οL	Hc Output limiter hi	within the proportional range. Gh Output limiter low [cool-side]	105.0		5n5 I	Setting group No. 51	This is the first parameter symbol of Setting group No. 51.					to (Input range high – 1digit) [Varies with the setting of the Decimal point position.]	Model code			[cool-side] 7: Current transformer 1 (CT1) input value	
85	oL	[cool-side]	to 105.0 % 0W -5.0 % to	-5.0	176	M.MV	Manual manipulated output value	PID control, Position proportioning PID control: Output limiter low [heat-side]	PID control, Position proportioning	140	Pok	Input error determination	Input error determination point (low) to Input range high + (5 % of input span)	Input range high +	1		8: Current transformer 2 (CT2) input value	N-
	PnS!	Parameter grou					*	to Output limiter high [heat-side] Heat/Cool PID control:	PID control: -5.0			point (high)	[Varies with the setting of the Decimal point position.]	(5 % of input span)	165	RHS Retransmission output 1 scale high	value (PV), Segment level, Set value (SV) in Fixed set point control mode,	retransmission output,
86	LV.S	No. 59 Cr Automatic level	♣ Parameter group No. 59. □FF: Automatic setting OFF	oFF			<u> </u>	Output limiter high [cool-side] to +Output limiter high [heat-side]	Heat/Cool PID control: 0.0	141	PUN	Input error determination point (low)	Input range low – (5 % of input span) * to Input error determination point (high)	Input range low – (5 % of input			and SV monitor value: Input range low to Input range high	value (PV), Segment
	ل <i></i> ـ	PID setting	an: Automatic setting ON Lafld: Restore setting before change			Sn53	Setting group No. 53	This is the first parameter symbol of Setting group No. 53.					[Varies with the setting of the Decimal point position.]	span)			[Varies with the setting of the Decimal point position.] Deviation:	value (SV) in Fixed set
87	LE	V I Level PID settir	Input range low to Input range high [Varies with the setting of the	Input range high	117	ЯГЬ	AT bias	-Input span to +Input span [Varies with the setting of the Decimal	0				* When Input type is RTD, low limit value is about 2 Ohms. (Pt100: -245.5 °C [-409.8 °F],				 Input span to +Input span [Varies with the setting of the Decimal 	
88	! F	V2 Level PID settir	Decimal point position.]		118	ЯГГМ	AT remaining	point position.] 0 hours 00 minutes	_	142	ΓΕΙΙ	Temperature	JPt100: -237.6 °C [-395.7 °F]) 0: No temperature compensation	1			point position.] Manipulated output value: -5.0 to +105.0 %	value: Input range high Deviation:
89		レコ Level PID settir	Same as Level PID setting 1		119	ΓUNE	time monitor AT/ST status	to 48 hours 00 minutes 0: AT/ST complete	_			compensation calculation &	calculation 1: With temperature compensation calculation				Current transformer (CT) input value: 0.0 to 100.0 %	+Input span Manipulated
90		VY Level PID settir	9 Same as Level PID setting 1			J. 12	monitor	AT running now ST running now Aborted. Setting changed.		143	Ьо	Burnout direction *	0: Upscale 1: Downscale	0	1			output value, and Current transformer
91		V5 Level PID settir	*					-2: Aborted. Abnormal input. -3: Aborted. Timeout. -4: Aborted. Abnormal calculated		144	SOR	extraction -	0: Unused 1: Used	0	166	OI C I Retransmission	on Data range is the same as Retransmi	(CT) input value: 100.0
92	LE	0	9 Same as Level PID setting 1 9 Same as Level PID setting 1				lo-ri:	values.		145	i ivi	*	0: Unused 1: Used	0		RL5 Retransmission output 1 scale low	scale high. [Factory set value]	put 1
		7	*		120	5n55	Setting group No. 55 &	This is the first parameter symbol of Setting group No. 55.	2.0	146	I Ndf	Input data type	 Number of measured value digits: 5 Number of RKC communication digits: 7 	Based on Model code			 No retransmission output, Measured of Segment level, Set value (SV) in Fixe 	ed set point
94	Pn80	NO. 60	This is the first parameter symbol of Parameter group No. 80 TC/RTD inputs	_	.20	Ydb	output neutral zone &	0.1 to 10.0 % of output					Modbus: Double word PLC communication: Double word				control mode, and SV monitor value: low • Deviation: –Input span	
54	ZaNi	E.H	0 (0.0, 0.00) to Input span (Unit: °C [°F])	0	121	SHS	Open/Close output differential gap	0.1 to 5.0 % of output	1.0				Number of measured value digits:4 Number of RKC communication digits: 6				Manipulated output value, and Currer (CT) input value: 0.0	nt transformer
			[Varies with the setting of the Decimal point position.] Voltage (V)/Current (I) inputs				<u>,</u>		1				Modbus: Single word PLC communication: Single word			Fn32 Function block No. 32	♣ Function block No. 32	
			0.0 to 100.0 % of Input span 0 (0.0, 0.00): Wait zone high OFF												167	Retransmission output 2 type		Based on Model code

The content of the		Symbol	Name	Data range	Factory set value	No.	Symbol	Name	Data range		Factory set value	No.	Symbol	Name	Data range	Factory set value	No.	Symbol	Name	Data range	Factory set value
Proceedings	168	AHS2		Same as Retransmission output 1 sca		187	ЕН	Event 1 differential gap		De	eviation,	215	aRd				239	ЬPS			
The content of the	169	B! 52		Same as Retransmission output 1 sca	ale low				[Varies with the setting of the D					[heat-side] ♣					*	2: 9600 bps 3: 19200 bps	
The content		I IL JL	output 2 scale low ♣	· 					Manipulated output value (MV):	V	V/I inputs:	216	Rove		output)	2					
The content of the		Fn33			of —					in	nput span				error (Manual control mode)		240	ЫΓ			0
The content of the	170	Ro3	Retransmission output 3 type .			188	EVF I	Event 1 timer	0.0 to 600.0 seconds						error (Program control mode, Fixed		241	I N	Interval time	0 to 250 ms	10
The content of the	171	RHS3	Retransmission	Same as Retransmission output 1 sca		Ē	Fn42			nbol of	-	217	RUNE			2	242	EMRM			_
March Control Contro	172	8: 53	high 🐥	C	-1- 1	189				ent 1 type		218	PSM	Manipulated	PID control, Position proportioning				monitor	Normal response Overrun error	
March Marc	172	HL53		Same as Retransmission output 1 sca	ale low				by the DO fu	ınction sele			. 2.,		-5.0 to +105.0 %	proportioning				Framing error	
Warding Ward		5034			of —	190	EHo2	Event 2	· · · · · · · · · · · · · · · · · · ·	code. 2						-5.0 Heat/Cool				If two or more errors occur, the	,
State Stat	173		DO1 function	0: No assignment		191		Event 2	Same as Event 1 differential ga	р						0.0				Errors are displayed in the	
Part			selection .	(Event, HBA, LBA, Input error)	Model code	192	EV C 2	Event 2 timer	Same as Event 1 timer			219	RMV	output value iii	-5.0 to +105.0 %	-5.0				3rd digit: Reception status monitor *	
March Continue of the cont				(RUN) state		Е	Fn43			nbol of	_	220	0 10	[heat-side]	0 to Input span	3 % of input				monitor *	
The content of the				(MAN) state 4: Autotuning (AT) state output		193	E53	E 101	ame as Event 1 Same as Eve				ran		0: Operation starts from any start					received, 0 and 1 are displayed	
Company Comp				monitoring result					by the DO fu	ınction sele	ection of				[Varies with the setting of the Decima						
March Marc				configured to be de-energized)		194	ЕНаЗ	Event 3 hold action	 			221	MV CS	manipulated	(Balanceless-bumpless function)	0	_	Fn62			-
March Marc	174	J_C1	DO2 function	8: Pattern end signal		195		Event 3	Same as Event 1 differential ga	р		200		selection			243	MP.REG		0: D register (data register)	0
March Continue C	175		selection & DO3 function			196	ЕГГЗ	Event 3 timer	Same as Event 1 timer			222	1 ddP	Derivative time	1: One decimal place	0				2: W register (link register)	
Proc. Cont. Cont	176		DO4 function	Same as DO1 function selection		No.	Symbol	Name	Data range			223	rrr	position		0				numbers when 32767 of R register	
Fig. Section Section Fig. Section Section Fig. Section Section Fig. Section	177		DO1 logic			F	Fn44				-		ב זכ	condition	function when the power is turned on; when transferred from RESET		244	MP.SRH	Register start	· · · · · · · · · · · · · · · · · · ·	0
Part				+1: Event 1	iviouel code	197	E54		Same as Event 1 Same as Eve		specified				to RUN/FIX; or when the Set value (SV) is changed.				(High-order		
Part Content and of blood Content and o				+4: Event 3					by the DO fu	ınction sele					function when the power is turned		245	MP.SRL	Register start	0 to 65535	1000
Part				+16: Heater break alarm 1 (HBA1) +32: Heater break alarm 2 (HBA2)		198	ЕНьЧ	Event 4 hold action	Same as Event 1 hold action						to RUN/FIX					,	
Column C				(LBA)		199	ЕНЧ	differential gap	Same as Event 1 differential ga	р					function when the Set value (SV) is		246	MP.Mod	Monitor item register bias .	12 to 65535	12
Column				+256: Input error low		200	ЕИГЧ	Event 4 timer	Same as Event 1 timer				F-155		This is the first parameter symbol of	_	247	мР.5ГЬ		0 to 65535	0
Bill Control	178		DO2 logic	each value.			Fn45			nbol of	_	225		Action at	0: Action depending on the Valve	0	248	MP.L.C.M		0 to 255 seconds	5
Part	170	doLUC	calculation	Same as DOT logic calculation selecti	lion	201	CCB I	CT1 assignment	0: None 1: OUT1		1			resistance (FBR)			249	мелма		0 to 3000 ms	255
	179	doLG3	calculation	Same as DO1 logic calculation selecti	tion							226	PoS			RdJ	250		PLC PLC	1 to 255 seconds	5
Ministration Mini	180	doLGY	DO4 logic	Same as DO1 logic calculation selecti	tion	202	בור ו	CT1 type	1: CTL-12-S56-10L-N						adjustment is automatically started.		251	MO.51.1	start time .	0 to 65525	140
Column C	181		selection -	0: Unused	Based on	203	EFR I	CT1 ratio	0 to 9999						aPEn: During adjustment on the open-side		252		bias 👫		
The company		ו כיםם	selection &	1: Used				*	CTL-6-P-N: 800	specified for	for the				_ close-side			MP,MA	recognizable		
The completed				<u> </u>						(CT) type:	800	227	МоГ	Control motor		10	F	FnΩI			-
Control Cont				│						is specified Current tra	d for the ansformer	228	oLR			150.0	253		Setting limiter	Setting limiter low to Input range high	
Company Comp				Unused		204	ELE I		0.0 to 1.0 A	(CT) type.		229	1/01	*		0				point position.]	
March Company Compan	182	dof 52	DO2 time signal			E	5_45	Function block	This is the first parameter syn	nbol of	_		VIIL	Reset mode	Open-side output OFF 1: Close-side output ON,		254	SLL		[Varies with the setting of the Decimal	
The content of the	183			•																point position.)	
Fig. VI Intercentation of the resident property of the processing of the process	100	dol 23	DO3 time signal			205												c 0 i	Function block		<u> </u>
The control of the	184		DO3 time signal selection & DO4 time signal	Same as DO1 time signal selection		205	CC R2	CT2 assignment	Same as CT1 assignment			230	YR5.		Open-side output ON 0: Invalid	0			No. 91	This is the first parameter symbol of Function block No. 91	
Part Control Part	184	dol 54	DO3 time signal selection & DO4 time signal selection & Function block	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol o	of —		CLF5	CT2 assignment CT2 type	Same as CT1 assignment Same as CT1 type			230	YR50	saturated output 4	Open-side output ON 0: Invalid 1: Valid		_ _ _		No. 91	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values:	
Somewhat is a product of the product	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 0: None	If the Event		CLUS CLUS	CT2 assignment CT2 type CT2 ratio CT2 low input	Same as CT1 assignment Same as CT1 type Same as CT1 ratio			230		saturated output .* Function block No. 56 .*	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56	_	_		No. 91	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value	
Book Committee	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 O: None 1: Deviation high (Using SV monitor value) a 2: Deviation low	If the Event type is specified by the DO		CLC2	CT2 assignment CT2 type CT2 ratio CT2 low input cut-off Function block	Same as CT1 assignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn	nbol of		230	Fn56	Function block No. 56 Output change rate limiter (up)	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output	_		dEF	No. 91 Initialization	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours	0
In monitor value) I project on control and antimity I project on control a	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 0: None 1: Deviation high (Using SV monitor value) a 2: Deviation low (Using SV monitor value) a 3: Deviation high/low	If the Event type is specified by the DO function selection of		C	CT2 assignment CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal	Same as CT1 sasignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused	Bas		230 — 231 232	FnS6 aRUc	saturated output Function block No. 56 Output change rate limiter (up) [cool-side] Output change	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0 OFF 0.0 to 1000.0 %/seconds of	0.0		dEF	No. 91 Initialization Integrated operating time Peak hold monitor of	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours	0 —
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Figh Low modification Section	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol o Function block No. 41 0: None 1: Deviation high (Using SV monitor value) * 2: Deviation high (Using SV monitor value) * 3: Deviation high/low (Using SV monitor value) * 5: Deviation high/low (Using SV monitor value) * 6: Band (Using SV monitor value) * 7: Deviation high/low (Using SV monitor value) 1: High/Low individual setting] * 6: Band (Using SV monitor value) 7: SV high (Using SV monitor value) 8: SV low (Using SV monitor value) 9: Process high * 10: Process low * 11: Deviation high (Using segment level) * 12: Deviation high/low (Using segment level) * 13: Deviation high/low (Using segment level) * 14: Band (Using segment level) * 14: Band (Using segment level) *	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	208	ETR2 ETR2 ETR2 ELC2 Fn47 T5.5L Fn48 ENd.5L	CT2 assignment CT2 type CT2 type CT2 total cut-off CT2 low input Cut-off Function block No. 47 Firms signal selection Function block No. 48 Pattern end signal selection	Same as CT1 ssignment Same as CT1 type Same as CT1 ratio Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Time signal 4 Unused Set time signal 4 Unused O: Unused 1: Used	Bas Mo	odel code	231	FnS6 aRUc aRdc RMV c US	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolin 0.0 to 1.0 This is the first parameter symbol of			HEF WF FEU RoM PZ900 00000 ta bit configet value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor uration table Data bit 8	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed.	
17. SV high (Using segment level) 18. SV high (Using segment level) 19. MV high heal-side) ** 20. MV high heal-side) ** 21. Process highling 22. Process highling 23. Process highling 24. Process hand Plight Low individual setting) * 25. Even thold and re-hold action is available. 26. Even thold action is available. 27. Even hold action is available. 28. Even hold action is available. 29. Even hold action is available. 29. Level Pligh Low individual setting) * 210. Level Pligh Low individual setting) * 211. LPI Guert Pligh Communication of the decobar resistance (PV) (Level Pligh Communication) 1. Switching by Measured value (PV) (Level Pligh Communication) 2. Switching by Measured value (PV) (Level Pligh Communication) 2. Switching by Measured value (PV) (Level Pligh Communication) 2. Switching by Measured value (PV) (Level Pligh Communication) 3. Modulus 1. Depth Communication of initial setting code when of the low o	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 1. Deviation high (Using SV monitor value) and (Using segment level) and (Using segment le	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 209 2099	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 Pattern end signal selection	Same as CT1 sasignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used 000000000000000000000000000000000000	Bas Mo		231	FnS6 aRUc aRdc RMV c US dbPR	saturated output saturated output saturated output change rate limiter (up) [cool-side] • Output change rate limiter (down) [cool-side] • Manipulated output value in Reset mode [cool-side] • Undershoot suppression factor • Overlap/ Deadband reference point • Function block No. 57 • Bottom	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % Water Air of Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function			AEF WF FEJ RoM PZ900 00000 ta bit configet value 0 1 2	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor uration table Data bit 8 8 8	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1	
19: MV how [heat-side] ** 20: MV bow [heat-side] ** 21: MV how [heat-side] ** 22: MV bow [heat-side] ** 23: Forces high [red-side] ** 24: Process high how [high Low individual setting] * 24: Process high how [high Low individual setting] * 25: Process high how available. 10: Event hold and not heat how some production is available. 10: Event hold and not heat how	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 10: None 11: Deviation high (Using SV monitor value) and the selection of the selection low (Using SV monitor value) and the selection of the selec	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 209 2099	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 Pattern end signal selection	Same as CT1 assignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 O: Unused 1: Used Time signal 4 Time signal 2 Time signal 2 Time signal 3 Set time signal 4 Unused Set time signal 4 Unused Set time signal 4 Unused 1: Used O: Unused O:	nbol of Bar Mo		231	FnS6 aRUc aRdc RMV c US dbPR	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % Water Air c Coolin 0.0 to 1.0 This is the first parameter symbol of Function block No. 57 0: No function 0: No function 1: FF amount is added by level			## AEF ## PZ900 00000 ta bit confige to value 0 1 2 3 4	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Data bit 8 8 8 8 8 8	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1	
2: M/ low (pool-oide)* 22: M/ low (pool-oide)* 23: Process highflow 4: Promose had in every control (reverse eation) 4: Province had every control (reverse eation) 5: Brilliant II Position proportioning PID control (reverse eation) 6: Brilliant II Position proportioning PID control (reverse eation) 7: Pewn Hold and e-hold action is available. 212 LPI d action selection of initial setting of the Do function selection of initial setting of initial setting of the Do function selection of initial setting of the Do function selection of initial setting of initial setting of the Do function selection of initial setting of initial setting of the Do function selection of initial setting of initial setting of the Do function selection of initial set	184	dol 54 Fn4 1	DO3 time signal selection	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 O: None 1: Deviation high (Using SV monitor value) and Using SV monitor value) and Deviation high/low (Using SV monitor value) because of the selection of the selection high/low (Using SV monitor value) because of the selection high/low (Using SV monitor value) because of the selection high/low (Using SV monitor value) because of the selection high/low (Using SV monitor value) because of the selection because of the selection of the selection of the selection because of the selection of the selecti	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 209 2099	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 Pattern end signal selection	Same as CT1 sasignment Same as CT1 type Same as CT1 type Same as CT1 low input cut-off Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Unused Time signal 1 Time signal 2 Time signal 3 Time signal 3 Set time signal 3 Set time signal 4 Unused Set time signal 6 Unused 1: Used This is the first parameter syn Function block No. 48 0: Unused 1: Used This is the first parameter syn Function block No. 51 0: Brilliant II PID control (direct 1: Brilliant II PID control (direct 2: Brilliant II PID control (direct 2: Brilliant II Heat/Cool PID con [water cooling] 3: Brilliant II Heat/Cool PID con	Bas Mo		231	FnS6 aRUc aRdc RMVc US dbPR FnS7 bCMSP	saturated output saturated output saturated output saturated output change rate limiter (up) [cool-side] footnote sate limiter (down) [cool-side] sate limiter (down) [cool-side] sate limiter (down) footnote sate limiter	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % Usate Air of Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of T			RoMP PZ900 tta bit configet value 0 1 2 3 4 5 6 6	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor uration table Data bit 8 8 8 8 8 8 7	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1	
2.1 (Fright, Low individual setting) 2.2 (Fright, Low individual setting) 3.2 (Fright, Low individual setting) 3.2 (Fright, Low individual setting) 3.2 (Fright, Low individual setting) 4.3 (Fright, Low individual setting) 4.3 (Fright, Low individual setting) 5. (Fright, Low individual setting) 5. (Fright, Low individual setting) 5. (Fright, Low individual setting) 6. (Fright, Low individual setting) 7. (Fright, Low individ	184	dol 54 Fn4 1	DO3 time signal book in signal book	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 1. Deviation high (Using SV monitor value) and Deviation low (Using SV monitor value) and Deviation high/low (Using SV monitor value) and Deviation bloom (Using SV monitor value) and Deviation bloom (Using SV monitor value) and Deviation blow (Using SV monitor value) and Deviation high/low (Using segment level) and Using segment level) and Deviation high/low (Using se	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 209 2099	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 Pattern end signal selection	Same as CT1 sasignment Same as CT1 type Same as CT1 type Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used OUDDO Sylvey Sylvey Sylvey Time signal 1 Time signal 2 Time signal 3 Time signal 3 Set time signal at each digit. This is the first parameter syn Function block No. 48 0: Unused 1: Used This is the first parameter syn Function block No. 51 O: Brilliant II PID control (direct 1: Brilliant II PID control (direct 2: Brilliant II Heat/Cool PID con [air cooling] 3: Brilliant II Heat/Cool PID con [air cooling] 4: Brilliant II Heat/Cool PID con	Bas Mo		231	FnS6 aRdc RMV c US dbPR FnS0 Fn60	saturated output Function block No. 56 Output change rate limiter (up) [cool-side] Output change rate limiter (ud) (down) [cool-side] Manipulated output value in Reset mode [cool-side] Undershoot suppression factor Overlap/ Deadband reference point Function block No. 57 Bottom suppression function Function block No. 60 Communication	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolir 0.0 to 1.0 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication			## AEF ### PZ900 00000 ta bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor uration table Data bit 8 8 8 8 7 7	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 None 1 None 1	
Flight Low individual setting Event hold action is available. Event hold action is available. Event hold action is available. When the instrument is specified as position proportioning PID control with feedback resistance, first in becomes Feedback resistance (FBR) input. Event 1 hold action 1: Hold action ON 2: Re-hold action ON 2: Re-hold action on ON 2: Re-hold action of initial setting code when ordering, the factory set value for bythe DO function selection of initial setting code when ordering, the factory set value for bythe DO function selection of initial setting code on the specified bythe DO function selection of initial setting code on the specified of the Do function selection of initial setting code of the Do function selection of initial setting code on the specified of the Do function selection of initial setting code of the Do function s	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 10: None 11: Deviation high (Using SV monitor value) and to select selection low (Using SV monitor value) and to selection blogholder selection high/low (Using SV monitor value) and to selection high/low individual setting] and to selection low (Using SV low (Using SV monitor value) and to selection high/low (Using SV low (Using SV monitor value) and to selection high/low (Using segment level) and to selection high/low (Using segment level) and to segment level and to segm	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 209 2099	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 Pattern end signal selection	Same as CT1 ssignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 O: Unused 1: Used Time signal 1 Time signal 2 Time signal 2 Time signal 3 Time signal 4 Unused Set time signal 4 Unused Set time signal 1 Time signal 2 Time signal 1 Time signal 2 Time signal 2 Time signal 1 Time signal 2 Time signal 2 Time signal 2 Time signal 1 Time signal 2 Time signal	Bas Mo mbol of Bas Mo mbol of action) Bas action) Mo mtrol throl		231	FnS6 aRdc RMV c US dbPR FnS0 Fn60	saturated output Function block No. 56 Output change rate limiter (up) [cool-side] Output change rate limiter (ud) (down) [cool-side] Manipulated output value in Reset mode [cool-side] Undershoot suppression factor Overlap/ Deadband reference point Function block No. 57 Bottom suppression function Function block No. 60 Communication	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolir 0.0 to 1.0 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer:			## AEF ### PZ 900 ### D0000 ### ta bit configet value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor uration table Data bit 8 8 8 8 8 7 7 7	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 None 1 None 2 Even 1 None 1 None 2 Even 1 Even 2 Even 1 None 1 None 1 None 1 Even 2 Even 1 Even 2	
Sevent hold action is available. * Event hold action is available. * When the instrument is specified as position proportioning PID control with feedback resistance, this item becomes Feedback resistance (FBR) input. 186 **EHall** Event 1 hold action ON Comparity	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 1. Deviation high (Using SV monitor value) and Deviation low (Using SV monitor value) and Deviation high/low (Using segment level) and Using segment level and Using Segment level and Using Segment level and Using Segment level and Using Segment l	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 - 209 210 - 211	ETR2 ETR2 ETR2 ELC2 Fn47 T5.5L Fn48 ENd.SL Fn5 1	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 48 CT2 ratio Function block No. 51 Control action	Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Time signal 1 Time signal 2 Time signal 2 Time signal 3 Time signal 4 Unused Set time signal at each digit. This is the first parameter syn Function block No. 48 0: Unused 1: Used This is the first parameter syn Function block No. 48 0: Unused 1: Used This is the first parameter syn Function block No. 51 0: Brilliant II PID control (direct 1: Brilliant II PID control (reverse 2: Brilliant II Heat/Cool PID con [air cooling] 3: Brilliant II Heat/Cool PID con [cooling] In Position proportion PID control (reverse action) 6: Brilliant II Position proportion PID control (reverse action) 6: Brilliant II Position proportion PID control (reverse action) Brilliant II Position proportion PID control (reverse action)	Bas Mo mbol of Bas Mo mbol of action) Bas action) Mo mtrol throl	ssed on odel code	231	FnS6 aRdc RMV c US dbPR FnS0 Fn60	saturated output Function block No. 56 Output change rate limiter (up) [cool-side] Output change rate limiter (ud) (down) [cool-side] Manipulated output value in Reset mode [cool-side] Undershoot suppression factor Overlap/ Deadband reference point Function block No. 57 Bottom suppression function Function block No. 60 Communication	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: upper word to lower word)			## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
When the instrument is specified as position proportioning PID control with feedback resistance. (FBR) input. 186 EHo	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 O: None 1: Deviation high (Using SV monitor value) a 2: Deviation low (Using SV monitor value) a 3: Deviation high/low (Using SV monitor value) b 4: Band (Using SV monitor value) b 5: Deviation high/low (Using SV monitor value) (High/Low individual setting) a 6: Band (Using SV monitor value) (High/Low individual setting) a 7: SV high (Using SV monitor value) 10: Process high b 10: Process low b 11: Deviation high/low (Using segment level) a 12: Deviation high/low (Using segment level) a 14: Band (Using segment level) a 15: Deviation high/low (Using segment level) (High/Low individual setting) a 16: Band (Using segment level) (High/Low individual setting) a 16: Band (Using segment level) 17: SV high (Using segment level) 18: SV low (Using segment level) 19: MV high [heat-side] b 20: MV low [heat-side] b 21: MV low [heat-side] b 22: MV low [coot-side] b 23: Process high/low (High/Low individual setting) b 4: Event hold and re-hold action is	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the DO function of initial setting the Event type is not specified by the Event type is not specified by the Event type is not specified by the Event type in the Event type is not specified by the Event type is not specified by the Event	207 208 - 209 210 - 211	ETR2 ETR2 ETR2 ELC2 Fn47 T5.5L Fn48 ENd.SL Fn5 1	CT2 assignment CT2 type CT2 ratio CT2 ratio CT2 low input cut-off Function block No. 47 Function block No. 48 Pattern end signal selection Function block No. 51 Control action	Same as CT1 sasignment Same as CT1 type Same as CT1 ratio Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used	Bas Mo Bas Mo Bas Mo nbol of action) Bas action) Mo ntrol throl atrol ntrol atrol ntrol ntrol ntrol ntrol ntrol ntrol ntrol ntrol ntrol	ssed on odel code	231	FnS6 aRdc RMV c US dbPR FnS0 Fn60	saturated output Function block No. 56 Output change rate limiter (up) [cool-side] Output change rate limiter (ud) (down) [cool-side] Manipulated output value in Reset mode [cool-side] Undershoot suppression factor Overlap/ Deadband reference point Function block No. 57 Bottom suppression function Function block No. 60 Communication	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolir 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word so Pupper			## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
becomes Feedback resistance (FBR) input. 186 EHa I Event 1 hold action ON 186 EHa I Event 1 hold action ON 186 EHa I Event 1 hold action ON 186 Event 1 hold action ON	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 None Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 None Same as DO1 time signal selection None Same as DO1 time signal selection Same as DO1 time signal selection low (Using SV monitor value) and selection low (Using SV monitor value) band (Using SV monitor value) band (Using SV monitor value) Flephilow individual setting] and band (Using SV monitor value) Same symbol selection lightly band band band selection lightly band band band band band band band band	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function selection of initial setting a code: 1	207 208 - 209 210 - 211	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL Fn5 1 aS	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input CT2 low input Function block No. 47 Time signal selection Function block No. 48 Pattern end signal selection Function block No. 51 Control action	Same as CT1 sasignment Same as CT1 type Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 O: Unused Time signal 2 Time signal 2 Time signal 2 Time signal 3 Time signal 4 Unused Set time signal 4 Unused O: Unused I: Used O: Unused Set time signal 1 Time signal 2 Time signal 3 Time signal 3 Set time signal 1 O: Unused I: Used O: Unused I: Brilliant II PID control (direct I: Brilliant II PID control (greense (water cooling) Serilliant II Heat/Cool PID con (air cooling) Brilliant II Position proportion PID control (reverse action) O: No Level PID C: Switching by Set value (SV) (Level PID action) 2: Switching by Measured value 2: Switching by Measured value	Bas Mo Mo Bas Mo Mo Action) Bas action) Bas action) Mo Introl In	ssed on odel code	231	FnS6 aRdc RMV c US dbPR FnS0 Fn60	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air of Coolir 0.0 to 1.0 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is dided by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: over word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible			## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
EHa Event 1 hold action OFF If the Event type is specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Iffers depending on the Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Iffers depending on the Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Iffers depending on the Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Iffers depending on the Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Iffers depending on the Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event hold action of Initial setting code when ordering, the factory set value of Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event type is not specified by the DO function selection of initial setting code when ordering, the factory set value of Event type is not specified by the DO function selection of initial setting code when ordering, the Event type is not specified by the DO function selection of initial setting code when ordering, the Event type is not specified by the DO function selection of initial setting code when ordering the Event type is not specified by the DO function selection of initial setting code when ordering the Event type is not specified by the DO function selection of initial setting code when ordering the Event type is not specified by the DO function selection of initial setting code when ordering the Event type i	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 O: None 1: Deviation high (Using SV monitor value) and the signal selection of Ucyling SV monitor value) and the signal selection high/low (Using SV monitor value) and the signal selection high/low (Using SV monitor value) because of the signal selection high/low (Using SV monitor value) because of the signal selection high/low (Using SV monitor value) because of the signal selection high/low (Using SV monitor value) because of the signal selection high/low (Using SV monitor value) because of the signal selection high/low (Using segment level) and the signal selection high/low (Using segment level) because of the signal segment level) and the signal segment level) because of the signal segment level) and the signal segment level because of th	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function selection of initial setting a code: 1	2077 2088 — 2099 — 210 — 2111	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL Fn5 1 aS	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection	Same as CT1 sasignment Same as CT1 type Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used	Bas Mo mbol of Bas Mo mbol of action) Bas action) Bas action) Bas action below the more actions the more action below the more acting the more action below the more action below the more action be	assed on odel code assed on odel code TC/RTD	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0 OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0 OFF -5.0 to +105.0 % Water Air c Coolir 0.00 to 1.000 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELESEC series special protocol OnA-compatible 3C frame [format 4]) RKC communication: 0 to 99			## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
2: Re-hold action ON of initial setting code when ordering, the factory set value of Event hold action differs depending on the Event type is not specified by the DO function selection of initial setting code: 0	184	dol 54 Fn4 1	DO3 time signal selection # Do4 time signal selection # Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 1. None 1. Deviation high (Using SV monitor value) and Deviation high (Using SV monitor value) and Deviation high/low (Using SV monitor value) and Deviation and Deviation high (Using SV monitor value) and Deviation high (Using SV monitor value) and Deviation high/low (Using segment level) and Deviation high/low (Using segment level) and Deviation high/low (Using segment level) and Using Segment level and	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function selection of initial setting a code: 1	2077 2088 — 2099 — 210 — 2111	CTR2 CTR2 CTR2 CLC2 Fn47 TS.SL Fn48 ENd.SL Fn5 1 aS	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input cut-off Function block No. 47 Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection	Same as CT1 ssignment Same as CT1 type Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 O: Unused 1: Used Time signal 1 Time signal 2 Time signal 2 Time signal 3 Set time signal 4 Unused Set time signal 1 O: Unused	Bas Monto of Intro of I	assed on odel code	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: Fr amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible 3C frame [format 4]) RKC communication: 0 to 99 Modobus: 1 to 99	O.0 O.0 O.0 O.0 O.0 O.0 O.0 Ooling: 0.100 Ooling: 0.250 g linear: 1.000 O.0 O Based on Model code RKC communication: 0 Modbus: 1		## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
depending on the Event type. If the Event type is not specified by the Do function selection of initial setting code: 0	184	doГ54 F∩4 I ES I	DO3 time signal DO4 time signal selection Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 O: None 1: Deviation high (Using SV monitor value) * 2: Deviation high (Using SV monitor value) * 3: Deviation high/low (Using SV monitor value) * 4: Band (Using SV monitor value) * 5: Deviation high/low (Using SV monitor value) High/Low individual setting] * 6: Band (Using SV monitor value) * 7: SV high (Using SV monitor value) High/Low individual setting] * 8: SV low (Using SV monitor value) * 9: Process high * 10: Process high * 10: Process low * 11: Deviation high/low (Using segment level) * 12: Deviation high/low (Using segment level) * 15: Deviation high/low (Using segment level) * 16: Band (Using segment level) * 16: Band (Using segment level) High/Low individual setting] * 17: SV high (Using segment level) 18: SV low (Using segment level) 19: MV high [heat-side] * 20: MV low [heat-side] * 21: MV high [cool-side] * 22: MV low [cool-side] * 23: Process high/low High/Low individual setting] * 4: Process band High/Low individual setting] * 24: Process band High/Low individual setting] * 25: Process high/low High/Low individual setting] * 26: Process high/low High/Low individual setting] * 27: Process high/low 28: Process high/low 19: Process high/low 29: Process high/low 20: MV low [heat-side] * 21: MV high [cool-side] * 22: MV low [cool-side] * 23: Process high/low 24: Process band 25: Process high/low 26: High/Low individual setting] * 27: Process high/low 28: Process high/low 29: Process high/low 20: High/Low individual setting] * 20: MV low [heat-side] * 21: Wold individual setting] * 22: MV low [heat-side] * 23: Process high/low 24: Process high/low 25: Process high/low 26: High/Low individual setting] * 27: Process high/low 28: Process high/low 29: Process high/low 20: Hold action OFF	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function selection of initial setting code: 1	2079 2088 - 2099 2110 - 2111 212 213	C R C C C C C C C C	CT2 assignment CT2 type CT2 type CT2 ratio CT2 low input CT2 on input Function block No. 47 Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection Level PID differential gap Output change	Same as CT1 sasignment Same as CT1 type Same as CT1 low input cut-off Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 O: Unused 1: Used Time signal 1 Time signal 2 Time signal 2 Time signal 3 Set time signal 4 Unused Set time signal 4 Unused Set time signal 1 Time signal 1 Time signal 2 Time signal 1 Time signal 2 Time signal 1 O: Unused 1: Used Set time signal 1 each digit. This is the first parameter syn Function block No. 48 O: Unused 1: Used O: Brilliant II PID control (direct 1: Brilliant II PID control (reverse action) Set Brilliant II Pleat/Cool PID con [air cooling] Set Brilliant II Position proportion PID control (direct action) O: No Level PID O: No Level PID O: No Level PID action) O: No Level PID action) O: No Level PID action) O: to Input span [Varies with the setting of the D point position.]	Bas Monto of Intro of I	ased on odel code O TC/RTD inputs: 2 inputs: 0.2	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 100.0 for the first parameter symbol of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible 30 frame fromat 41) RKC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 30	O.0 O.0 O.0 O.0 O.0 O.0 O.0 Ooling: 0.100 Ooling: 0.250 g linear: 1.000 O.0 O Based on Model code RKC ommunication: 0 Modbus: 1 PLC ommunication:		## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
specified by the DO function selection of initial setting code: 0	184	doГ54 F∩4 I ES I	DO3 time signal DO4 time signal selection Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 0: None 1: Deviation high (Using SV monitor value) and Deviation high (Using SV monitor value) and Deviation high/low (Using SV monitor value) because it is presented by the provided by t	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function selection of initial setting a code: 1	2079 2088 - 2099 2110 - 2111 212 213	C R C C C C C C C C	CT2 assignment CT2 type CT2 type CT2 type CT2 ratio CT2 low input CT2 low input Function block No. 47 Fine signal selection Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection Level PID differential gap Output change rate limiter (up)	Same as CT1 ssignment Same as CT1 type Same as CT1 ratio Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Color Color Color	Bas Monto of Intro of I	ased on odel code O TC/RTD inputs: 2 inputs: 0.2	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 100.0 for the first parameter symbol of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible 30 frame fromat 41) RKC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 30	O.0 O.0 O.0 O.0 O.0 O.0 O.0 Ooling: 0.100 Ooling: 0.250 g linear: 1.000 O.0 O Based on Model code RKC ommunication: 0 Modbus: 1 PLC ommunication:		## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
	184	doГ54 F∩4 I ES I	DO3 time signal DO4 time signal selection Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol of Function block No. 41 1. Deviation high (Using SV monitor value) and Deviation low (Using SV monitor value) and Deviation high/low (Using Segment level) and Devi	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting code: 1	2079 2088 - 2099 2110 - 2111 212 213	C R C C C C C C C C	CT2 assignment CT2 type CT2 type CT2 type CT2 ratio CT2 low input CT2 low input Function block No. 47 Fine signal selection Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection Level PID differential gap Output change rate limiter (up)	Same as CT1 ssignment Same as CT1 type Same as CT1 ratio Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Color Color Color	Bas Monto of Intro of I	ased on odel code O TC/RTD inputs: 2 inputs: 0.2	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 100.0 for the first parameter symbol of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible 30 frame fromat 41) RKC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 30	O.0 O.0 O.0 O.0 O.0 O.0 O.0 Ooling: 0.100 Ooling: 0.250 g linear: 1.000 O.0 O Based on Model code RKC ommunication: 0 Modbus: 1 PLC ommunication:		## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	
	184	doГ54 F∩4 I ES I	DO3 time signal DO4 time signal selection Function block No. 41 Event 1 type	Same as DO1 time signal selection Same as DO1 time signal selection This is the first parameter symbol or Function block No. 41 O: None 1: Deviation high (Using SV monitor value) and Deviation low (Using SV monitor value) and Deviation high/low (Using SV monitor value) because of the selection of the select	If the Event type is specified by the DO function selection of initial setting code when ordering, that Event type will be the factory set value. If the Event type is not specified by the DO function of initial setting code: 1	2079 2088 - 2099 2110 - 2111 212 213	C R C C C C C C C C	CT2 assignment CT2 type CT2 type CT2 type CT2 ratio CT2 low input CT2 low input Function block No. 47 Fine signal selection Function block No. 48 Pattern end signal selection Function block No. 51 Control action Level PID action selection Level PID differential gap Output change rate limiter (up)	Same as CT1 ssignment Same as CT1 type Same as CT1 ratio Same as CT1 ratio Same as CT1 low input cut-off This is the first parameter syn Function block No. 47 0: Unused 1: Used Color Color Color	Bas Monto of Intro of I	ased on odel code O TC/RTD inputs: 2 inputs: 0.2	231	FnS6 oRUc oRUc RMV c US dbPR FnS7 bFMSP CMPS	saturated output Function block No. 56	Open-side output ON 0: Invalid 1: Valid This is the first parameter symbol of Function block No. 56 0.0 to 1000.0 %/seconds of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 100.0 for the first parameter symbol of manipulated output 0.0: OFF -5.0 to +105.0 % 0.000 to 1.000 Water Air o Coolin 0.0 to 1.00 This is the first parameter symbol of Function block No. 57 0: No function 1: FF amount is added by level 2: FF amount is forcibly added This is the first parameter symbol of Function block No. 60 0: RKC communication 1: Modbus (Order of data transfer: upper word to lower word) 2: Modbus (Order of data transfer: lower word to upper word) 3: PLC communication (MITSUBISHI MELSEC series special protocol OnA-compatible 30 frame fromat 41) RKC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 99 Modbus: 1 to 99 RCC communication: 0 to 30	O.0 O.0 O.0 O.0 O.0 O.0 O.0 Ooling: 0.100 Ooling: 0.250 g linear: 1.000 O.0 O Based on Model code RKC ommunication: 0 Modbus: 1 PLC ommunication:		## AEF ## PZ900 ## D00000 ## La bit config et value 0	No. 91 Initialization Integrated operating time Peak hold monitor of ambient temperature ROM version Model code monitor Instrument number monitor Bababababababababababababababababababa	This is the first parameter symbol of Function block No. 91 1225: Start initialization Other values: Set values are maintained After the initialization, the value automatically returns to zero. 0 to 65535 hours -120 to +120 °C The installed ROM version is displayed Model code is displayed. Use the UP or DOWN key to scroll the display horizontally (left or right). Instrument number is displayed. Parity bit Stop bit None 1 None 2 Even 1 Even 2 Odd 1 Odd 2 None 1 Even 2 Even 1 None 2 Even 1 None 2 Even 1 None 2 Even 1 Odd 1 Odd 2 Odd 1 Odd 2 Odd 1 Odd 2	

3. CONTROL AT THE PATTERN END

You can select whether to continue or stop control and various output actions (such as event function, retransmission output, and instrument status output)

● Control action at pattern end (ENd.P)

You can select the control action (continue or stop control) at the Pattern end. The factory set value is "continue control." In case of "Continue control," fixed setpoint control is conducted at the level of the final segment.

Level Pattern end In case of "Continue control,"
Fixed setpoint control is conducted at this level.

• Output action at pattern end (ENd.R.E)

You can also select whether to continue or stop the following outputs at the Pattern end. (Factory set value: 7)
Logic calculation output [Event 1 to 4, Heater break alarm (HBA) 1 to 2,

Time

- end. (Factory set value: 7)

 Logic calculation output

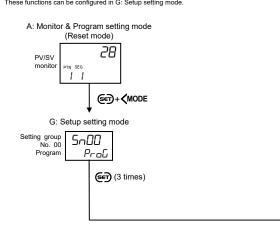
 Retransmission output 1 to 2, Control loop break alarm (LBA), Input error]

 Instrument status output

 Office output of Program control mode (RUN) state, Output of Manual control mode (MAN) state, Autotuning (AT) state output, Output of the communication monitoring result]
- For setting the logical operation output and the instrument status output, go to Function block No. 30 (Fn30) or Function block No. 34 (Fn34) in the H: Engineering mode. The retransmission output can be configured in Function block No. 31 (Fn31) in the H: Engineering mode.

Setting action at the Pattern end

There are two types of actions related to the action at the Pattern end: Control action at the Pattern end and Output action at the Pattern end.
These functions can be configured in G: Setup setting mode.



[Setting range]
PID control, Heat/Cool PID control or Position proportioning PID control (With FBR input): (With FBK input):

0: Control continued (Fixed set point control is conducted at the level of the final segment.) [Factory set value] €

1: Control stop

Position proportioning PID control (When there is no FBR input or the FBR input is break):

0: Control continued (Fixed set point control is conducted at the

level of the final segment.) [Factory set value]

1: Open-side output OFF, Close-side output OFF

2: Open-side output OFF, Close-side output ON

3: Open-side output ON, Close-side output OFF

Output action at pattern end

[Setting range] 0 to 7

ENd.P

00000

€

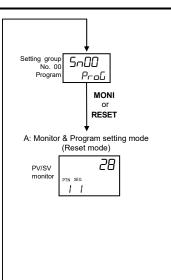
O: OFF
 +1: Logic calculation output: Action continues
 [Event 1 to 4, Heater break alarm (HBA) 1 to 2, Control loop break alarm (LBA), Input error]

break alarm (LBA), Input error]

+2: Retransmission output 1 to 3: Action continues
[PV, SV, Deviation, MV, CT]

+4: Instrument status output: Action continues
[Output of Program control mode (RUN) state, Output of
Manual control mode (MAN) state, Autofuning (AT) state
output, Output of the communication monitoring result]

To select two or more functions, sum each value.

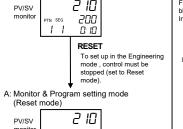


4. HOW TO CHANGE THE INPUT TYPE

The Input related parameters may include: Input type, Display unit, Decimal point position, Input range high, and

Changing the Input to Thermocouple type J (0 to 800°C) ■

Assuming that the present Input 1 is configured to Thermocouple type K (-200 to +1372 °C). A: Monitor & Program setting mode



€ +**<**MODE

(2 seconds)

(Twice)

Pr<u>o</u>[

1 1

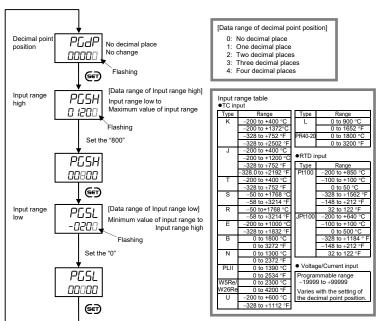
H: Engineering mode

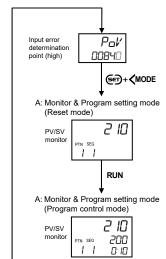
block No. 00

Function Fn2 I [Data range of input type] block No. 21: 1 -1 € I NP Input type 00000 \land INP 0000 € LINI F nnnnn

Flashing

€





5. HOW TO CHANGE THE EVENT TYPE

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

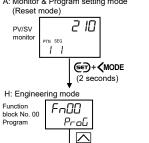
Changing Event 1 to Deviation high/low (Using SV monitor value)

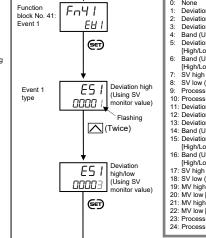
Assuming that the present Event 1 is configured to Deviation high (Using the SV monitor value) Other setting · · · Event hold action: Hold action ON, Event differential gap: 2, Event timer: 0.0

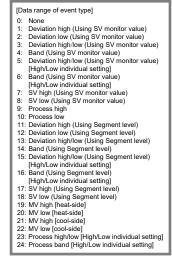


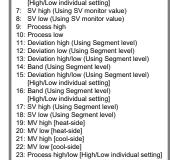
A: Monitor & Program setting mode

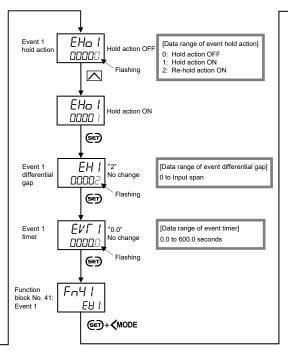
mode, control must be stopped (set to Reset A: Monitor & Program setting mode (Reset mode) 2 10 PV/SV

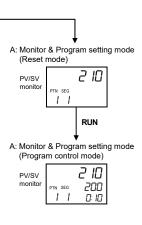












Description of event action

Some examples of event action are described in the following

(Several times)

OFF: Event action turned off (▲: Set value (SV) * △: Event set value ☆: Event differential gap) * Segment level and Set value (SV) in Fixed set point control mode

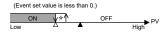
In the following explanation, the "Set value (SV)" means "Segment level SV" and "Set value (SV) in Fixed set point control mode."

• Deviation action (High, Low, High/Low, Band) When the deviation (PV - SV) reaches the Event set value, event ON occurs.

Deviation high

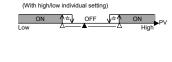
OFF √☆↑ Deviation low (Event set value is greater than 0.) (Event set value is less than 0.)

Deviation high/low Two types of Deviation high/low action are available



ON A OFF A ON PV





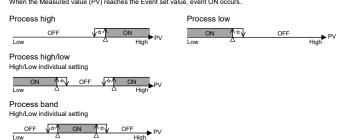
OFF V** ON T*V OFF PV

Set value action (High, Low)

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



■ Input value action (High, Low, High/Low, Band)



• Manipulated output value action (High, Low)

When the Manipulated output value (MV) reaches the Event set value, event ON occurs



SV monitor value type and Segment level type

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

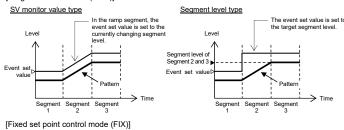
In the ramp segment, the event set value is set to the changing set value (SV) [Segment level].

Segment level type

The Event set value is set for the Set value (SV) [Segment level or Set value (SV) in Fixed set point control mo

Example: When the event type is a deviation high:

[Program control mode (RUN)]



When the Set value (SV) changes stepwise, the event set value is set to the set value (SV) after the stepwise change. Set value (SV) ▶ Set value (SV) Change the Set value (SV)

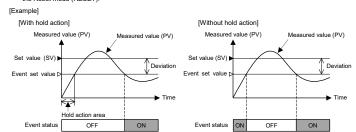
In the Fixed set point control mode (FIX), selecting either SV Monitor value type or Segment level type, whichever is selected, the event action will be the same.

Description of event hold action

Hold action

When the following operation is conducted, the Hold action deactivates the event function until the measured value (PV) leaves the event state once. When the measured value (PV) enters the Event off area, the HOLD action is released

. When the mode is switched to the Program control mode (RUN) or to the Fixed set point control mode (FIX) from the Reset mode (RESET).

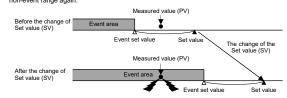


Re-hold action

When re-hold action is ON, the event action is also suppressed at the control set value change until the me

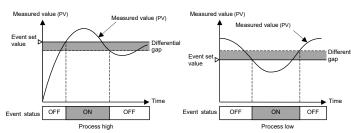
value has entered the non-event range.

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

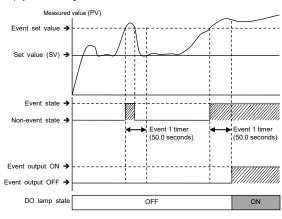
It prevents chattering of event output due to the measured value fluctuation around the Event set value



Description of event timer =

When an event condition becomes ON, the output is suppressed until the Event timer set time elapses. If the event 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 the instrument enters the event state at the same time that the instrument is switched from the Reset mode (RESET) to the Program control mode (RUN), Fixed set point control mode (FIX) or Manual control mode (MAN).
- 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 RESET (Reset mode) from RUN (Program control mode) while the
- Cancellation of Event state

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