PLC Communication Converter

COM-JE

Communication **Data List**

This manual describes the communication data of the COM-JE. For the installation, the detail handling procedures and various function settings, please refer to the following separate manuals.

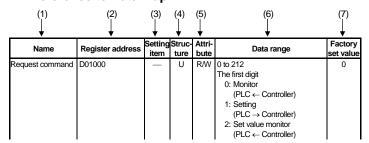
- COM-JE Installation Manual (IMR01Y02-E□):
- Enclosed with COM-JE COM-JE Quick Instruction Manual (IMR01Y12-E□): Enclosed with COM-JE
- COM-JE Instruction Manual (IMR01Y07-E□):
 - Separate manual * * Download free or purchase hard copy

The above manuals can be downloaded from the official RKC website: http://www.rkcinst.com/english/manual_load.htm.

1. PLC COMMUNICATION DATA MAP

The PLC communication data map shows data which can be used for communication between the PLC and controller (FB100/400/900)

1.1 Reference to Data Map



- (1) Name: Name of communication data
- (2) Register address: A register address of communication data in PLC communication
 - Register addresses in this manual apply under the following conditions:

 - MITSUBISHI MELSEC series A-compatible 1C frame (format 4) ACPU common command (WR/WW)
 - (Also for the OMRON PLC, the content of data remains unchanged.)
 - Communication environment setting:

Maximum number of controllers in PLC communication: 10 Register start number: 1000

Register type: 0 (D register) Monitor item selection: 4095 (all items)

Setting of Maximum number of controllers in PLC communication and Register start number changes an assignment of a register address.

Name	Register address	
Request command	D01000	Register start number
COM-JE communication state	D01001	
:	:	Measured value (PV)
Measured value (PV)	D01030 to D01039	Controller 1 to 10
Current transformer 1 (CT1) input value monitor	D01040 to D01049	CT1 monitor Controller 1 to 10
Current transformer 2 (CT2) input value	D01050 to D01059	CT2 monitor Controller 1 to 10

For the PLC communication environment setting, refer to the **COM-JE** Quick Instruction Manual (IMR01Y12-E□).

- (3) Setting item: This is the number set when a special setting item is read or written by
- the request command.
- (4) Structure:
- U: Data for each controller communication unit *
- C: Data for each controller
- * A controller communication unit denotes a case where one COM-JE are connected to several controllers via controller communication (RS-485)

(PLC ← Controller)

- (5) Attribute:
- RO: Read only data
 - R/W: Read and Write data (PLC ← Controller)
- Read or write range of communication dat (6) Data range:

9 0.	rtodd or mito raingo or communication date	•	
	Bit image of bit data is as follows.		
	16-bit data	П	
	7	٦.	
	Bit 15	· Bit (0

(7) Factory set value: Factory set value of communication data

Name	Register address		Struc-		Data range	Factory
Request command	D01000	item	ture	bute R/W	0 to 212	set value
toquoot corriinana	201000				The first digit	Ů
					0: Monitor (PLC ← Controller) 1: Setting (PLC → Controller)	
					2: Set value monitor	
					(PLC ← Controller)	
					The tenth and hundreds digit 0: All items	
					1 to 21: Setting item number	
OM-JE	D01001	_	U	RO	0: Unused	_
ommunication state					Data write into monitor During monitor data of attribute	
					RO is written to PLC	
					Set data read During setting data of attribute	
					R/W is read from PLC	
					3: Set data write	
					During setting data of attribute R/W is written to PLC	
OM-JE normal	D01002	_	U	RO	0/1 transfer	_
ommunication flag					(For communication checking)	
					"0" and "1" are repeated for each communication period.	
	D01003		_		Do not use this register address as it	_
	D01004				is used for the internal processing.	
LC communication	D01005		U	RO	Bit data	_
rror code					Bit 0: PLC register read/write error Bit 1: Slave communication timeout	
					Data 0: OFF 1: ON	
				 	[Decimal number: 0 to 3]	
Init recognition flag	D01006	-	U	RO	Bit data Bit 0: Controller communication unit 1	_
					Bit 1: Controller communication unit 1	
					Bit 2: Controller communication unit 3	
					Bit 3: Controller communication unit 4 Data 0: No unit exists	
					1: Unit exists	
					[Decimal number: 0 to 15]	
laximum number of	D01007	-	U	RO	1 to 31	_
ontrollers in PLC ommunication						
lumber of connection	D01008	_	U	RO	1 to 31	_
ontroller in controller						
ommunication etting change flag	D01009		U	RO	Controller setting not changed	_
999					Controller setting changed	
					Set to "0" when data is written to the	
					PLC by request command 2. In addition, set to "1" when there is a	
					change in the value written to the	
	Dototo		L	DAV	PLC by the controller.	
tart address ^a	D01010	_	U	R/W	Register address range of host communication (Modbus)	0
lumber of transfer	D01011	_	U	R/W	1 to 16 words	0
ords ^a					(0: No transfer operation)	
control word 1 a	D01012	_	U	R/W	 0: No transfer operation 1: Setting (PLC → Controller) 	0
equest command)					2: Monitor (PLC ← Controller)	
ontrol word 2 a	D01013	_	U	RO	0: Unused	_
communication state)					No transfer operation Reading out setting data	
					During data is read from PLC	
					Writing monitoring data	
ranafor data ⁸	D01014 to D04000	 	17	DAA/	During data is written to PLC	0
ransfer data ^a leasured value (PV)	D01014 to D01029 D01030 to D01039	\vdash	C	R/W RO	Data range specified by Start address Input scale low to Input scale high ^b	0
current transformer 1	D01030 to D01039	\vdash	С	RO	CTL-6-P-N:	
CT1) input value	501049				0.0 to 30.0 A	
nonitor	D01050 t- D01053	ļ	_	P.C	CTL-12-S56-10L-N:	
urrent transformer 2 CT2) input value	D01050 to D01059	-	С	RO	0.0 to 100.0 A	_
nonitor						
et value (SV) monitor	D01060 to D01069		С	RO	Setting limiter low to	_
emote setting (RS)	D01070 to D01079		С	RO	Setting limiter high ^b Setting limiter low to	
emote setting (RS) put value monitor	010/0 0 0010/9	-		, KU	Setting limiter low to Setting limiter high ^b	-
lanipulated output	D01080 to D01089	<u> </u>	С	RO	PID control or Heat/Cool PID control:	_
alue (MV1) monitor					-5.0 to +105.0 %	
neat-side]					Position proportioning PID control with feedback resistance (FBR) input:	
	<u></u>	<u></u>	<u></u>	<u></u>	0.0 to 100.0 %	<u></u>
lanipulated output	D01090 to D01099		С	RO	-5.0 to +105.0 %	_
alue (MV2) monitor ool-side]						
rigital input (DI) state	D01100 to D01109	_	С	RO	Bit data	_
nonitor					Bit 0: DI1 Bit 5: DI6 °	
					Bit 1: DI2 Bit 6: DI7 ° Bit 2: DI3 Bit 7 to Bit 15:	
					Bit 2: DI3 Bit 7 to Bit 15: Bit 3: DI4 Unused	
					Bit 4: DI5	
					Data 0: Open 1: Closed	
utput state monitor	D01110 to D01119	\vdash	С	RO	[Decimal number: 0 to 127] Bit data	
aspat otato monitor	201110.0001119	-	ັ		Bit 0: OUT1 Bit 4: DO3 °	-
					Bit 1: OUT2 Bit 5: DO4 °	
		l	l	l	Bit 2: DO1 Bit 6 to Bit15:	Ì

^a These data items are used for the Specified data transfer type. For the Specified data transfer type, refer to the COM-JE Instruction Manual (IMR01Y07-E□).

Bit 3: DO2

Data 0: OFF

Unused 1: ON

Name	Register address	item	ture	bute	Data range	
Name ontroller state 1 omprehensive irm state) ontroller state 2 ror code)	Register address D01120 to D01129 D01130 to D01139	Setting item			Bit data Bit 0: Burnout state Bit 1: Burnout state of feedback resistance (FBR) input Bit 2: Event 1 state Bit 3: Event 1 state Bit 4: Event 3 state Bit 4: Event 3 state Bit 5: Event 4 state Bit 7: Heater break alarm 1 (HBA1) state Bit 7: Heater break alarm 2 (HBA2) state Bit 8: Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 255] Bit data Bit 0: Adjustment data error Bit 1: Back-up error Bit 2: A/D conversion error Bit 3: Obit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 7: Watchdog timer error Bit 9: Data 0: Obit 10: Unused Bit 11: Program error (busy)	Factory set value
ontroller state 3 peration mode tte)	D01140 to D01149		С	RO	Bit 12 to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON [Decimal number: 0 to 35239] Bit data Bit 0: Control STOP Bit 1: Control RUN Bit 2: Manual mode 1 Bit 3: Remote mode 1 Bit 4 to Bit 13: Unused	_
					Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]	
D/AT transfer	D01150 to D01159	1	С	R/W	0: PID control 1: Autotunig (AT)	0
to/Manual transfer	D01060 to D01069	2	С	R/W	0: Auto mode 1: Manual mode	0
IN/STOP transfer	D01070 to D01079	3	С	R/W	0: RUN (control start) 1: STOP (control stop)	0
ent 1 set value	D01180 to D01189	4	С	R/W	Deviation: -Input span to +Input span ²	50
ent 2 set value	D01190 to D01199	5	С	R/W	Process and set value:	50
ent 3 set value	D01200 to D01209	6	С	R/W R/W	Input scale low to Input scale high ² Manipulated output value (MV1 or MV2):	50
ent 4 set value t value (SV)	D01210 to D01219 D01220 to D01229	8	С	R/W	-5.0 to +105.0 % Setting limiter low to Setting limiter high ²	TC/RTD inputs: 0 V/I inputs: 0.0
oportional band aat-side]	D01230 to D01239	9	С	R/W	TC/RTD inputs: 0 (0.0, 0.00) to Input span ² (Unit: °C [°F]) 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: 30.0
egral time :at-side]	D01240 to D01249	10	O	R/W	PID control or Heat/Cool PID control: 0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: PD action) ⁴ Position proportioning PID control: 1 to 3600 seconds or 0.1 to 1999.9 seconds ³	240
rivative time eat-side]	D01250 to D01259	11	С	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: PI action)	60
oportional band ool-side]	D01260 to D01269	12	С	R/W	(c, 0.5. 1 Fastant) TC/RTD inputs: 1 (0.1, 0.01) to Input span ² (Unit: °C [°F]) Voltage (V)/Current (I) inputs: 0.1 to 1000.0 % of Input span	TC/RTD inputs: 30 V/I inputs: 30.0
egral time ol-side]	D01270 to D01279	13	С	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: PD action) ⁴	240
rivative time ol-side]	D01280 to D01289	14	С	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: PI action)	60
erlap/Deadband	D01290 to D01299	15	С	R/W	TC/RTD inputs: -Input span to +Input span ² (Unit: °C [°F]) Voltage (V)/Current (I) inputs: -100.0 to +100.0 % of Input span Minus (-) setting results in Overlap. However, the overlapping range is within the proportional range.	0
etting change rate liter (up)	D01300 to D01309	16	С	R/W	0 to Input span/unit time * 2 (0: Unused)	0
tting change rate iter (down)	D01310 to D01319	17	С	R/W	* Unit time: 60 seconds (factory set value)	0
ater break alarm 1 BA1) set value	D01320 to D01329	18	С	R/W	CTL-6-P-N: 0.0 to 30.0 A (0.0: Unused)	0.0
ater break alarm 2 BA2) set value	D01330 to D01339	19	С	R/W	CTL-12-S56-10L-N: 0.0 to 100.0 A (0.0: Unused)	0.0
bA2) set value / bias anual manipulated tput value	D01340 to D01349 D01350 to D01359	20 21	C	R/W R/W	-Input span to +Input span 2 PID control: Output limiter low [MV1] to Output limiter high [MV1] Heat/cool PID control: -Output limiter high [MV2] to +Output limiter high [MV2] to +Output limiter high [MV1] (-105.0 to +105.0 %) Position proportioning PID control with feedback resistance (FBR) input: Output limiter low [MV1] to Output limiter high [MV1]	0 0.0

Output limiter high [MV1] During operation in Manual mode, the Manual mode of the Operation mode state monitor is set to the "1: ON" state and the Remote mode of the same monitor is set to the "0: OFF" state even if the parameter, Remote/Local transfer is set to "1: Remote mode."

2. HOST COMMUNICATION DATA MAP

The Host communication data map shows data which can be used for communication between the host computer and controller (FB100/400/900). The Modbus register address is also used for the Specified data transfer type of PLC communication.

•	Modbus	register	address

HEX: Hexadecimal DEC: Decimal

The head address of each item. (Vacant numbers become unused.)

Attribute

RO: Only reading of data is possible (Host computer ← Controller) R/W: Reading and writing data is possible (Host computer ←→ Controller)

16-bit data

All the data in the RKC communication is 7 digits.

Reading data of unused setting items are factory set values. Unused setting items may not be written. To do so will not cause an error, however data will be

For the Specified data transfer type, refer to the COM-JE Instruction Manual

Name	RKC Iden- tifier	Mod regi: addr	ster ress	Number of data	Attri- bute	Data range	Factory set value
		HEX	DEC				
Measured value (PV)	M1	0000	0	31	RO	Input scale low to Input scale high 1	_
Current transformer 1 (CT1) input value monitor	M3	0020	32	31	RO	CTL-6-P-N: 0.0 to 30.0 A	_
Current transformer 2	M4	0040	64	31	RO	CTL-12-S56-10L-N:	
(CT2) input value monitor						0.0 to 100.0 A	
Set value (SV) monitor	MS	0060	96	31	RO	Setting limiter low to	_
						Setting limiter high 1	
Remote setting (RS) input value monitor	S2	0080	128	31	RO	Setting limiter low to Setting limiter high ¹	_
Burnout state monitor	B1	00A0	160	31	RO	0: OFF	_
						1: ON	
Burnout state monitor of	B2	00C0	192	31	RO	0: OFF	_
feedback resistance input Event 1 state monitor	AA	00E0	224	31	RO	1: ON 0: OFF	
Event 2 state monitor	AB	0100	256	31	RO	1: ON	$\vdash \equiv$
Event 3 state monitor	AC	0120	288	31	RO		
Event 4 state monitor	AD	0140	320	31	RO	1	_
Heater break alarm 1	AE	0160	352	31	RO	0: OFF	_
(HBA1) state monitor		0400	007		-	1: ON	<u> </u>
Heater break alarm 2 (HBA2) state monitor	AF	0180	384	31	RO		-
Manipulated output value	01	01A0	416	31	RO	PID control or Heat/Cool PID control:	<u> </u>
(MV1) monitor [heat-side]					-	-5.0 to +105.0 %	
						Position proportioning PID control with	
						feedback resistance (FBR) input: 0.0 to 100.0 %	
Manipulated output value	02	01C0	448	31	RO	-5.0 to +105.0 %	_
(MV2) monitor [cool-side]	02	0.00		0.		0.0 10 1 100.0 70	
Error code	ER	01E0	480	31	RO	Bit data	_
						Bit 0: Adjustment data error	
						Bit 1: Back-up error	
						Bit 2: A/D conversion error Bit 3 to Bit 4: Unused	
						Bit 5: Custom data error	
						Bit 6: Unused	
						Bit 7: Watchdog timer error	
						Bit 8: Stack overflow	
						Bit 9 to Bit 10: Unused	
						Bit 11: Program error (busy) Bit 12 to Bit 15: Unused	
						Data 0: OFF 1: ON	
						[Decimal number: 0 to 4095]	
Digital input (DI) state	L1	0200	512	31	RO	Bit data	_
monitor						Bit 0: DI1 Bit 5: DI6 2	
						Bit 1: DI2 Bit 6: DI7 2 Bit 2: DI3 Bit 7 to Bit 15:	
			l	1	l	Bit 3: DI4 Unused	
		l		l		Bit 4: DI5	
			l	1	l	Data 0: Open 1: Closed	
O		0000		<u> </u>	- na	[Decimal number: 0 to 127]	
Output state monitor	Q1	0220	544	31	RO	Bit data Bit 0: OUT1 Bit 4: DO3 2	l —
			l	1	l	Bit 1: OUT2 Bit 5: DO4 2	
			l	1	l	Bit 2: DO1 Bit 6 to Bit 15:	
			l	1	l	Bit 3: DO2 Unused	
			l		l	Data 0: OFF 1: ON	
Operation made state	LO	0240	576	31	RO	[Decimal number: 0 to 63]	
Operation mode state monitor	LU	0240	576	31	RU	Bit data Bit 0: Control STOP	-
		l		l		Bit 1: Control RUN	
			l	1	l	Bit 2: Manual mode 3	
			l	1	l	Bit 3: Remote mode ³	
						Bit 4 to Bit 15: Unused Data 0: OFF 1: ON	
			l		l	[Decimal number: 0 to 15]	
Memory area soak time	TR	0260	608	31	RO	0 to 11999 seconds or	_
monitor						0 to 5999 minutes	
Integrated operating	UT	0280	640	31	RO	0 to 19999 hours	-
time monitor Holding peak value	Нр	02A0	672	31	RO	−10.0 to +100.0 °C	
ambient temperature	. 10	02/10	0,2				
monitor							<u> </u>
Power feed forward input value monitor ²	HM	02C0	704	31	RO	0.0 to 160.0 %	l —
iriput value monitor		l	l		l	Display in the percentage of the load voltage (rated value).	
	l	ı	ı	Ī		· o. wyo (raiou value).	L

Varies with the setting of the Decimal point position selection.

Varies with the setting of the Decimal point position selection.

^c Unused on the FB100.

Varies with the setting of the Decimal point position selection.
 Varies with the setting of the Integral/Derivative time decimal point position selection.
 When the heat-side or cool-side integral time is set to zero for Heat/Cool PID control, PD action will take place for both

During operation in Manual mode, the Manual mode of the Operation mode state monitor is set to the "1: ON" state and the Remote mode of the same monitor is set to the "0: OFF" state even if the parameter. Remote/Local transfer is

Name	RKC Iden- tifier	Mod regi: addr HEX	ster	Number of data	Attri- bute	Data range	Factory set value
Backup memory state monitor	EM	02E0	736	31	RO	O: The content of the backup memory does not coincide with that of the RAM. 1: The content of the backup memory coincides with that of the RAM. RAM	_
PID/AT transfer	G1	0400	1024	31	R/W	0: PID control 1: Autotuning (AT)	0
Auto/Manual transfer	J1 C1	0420	1056	31	R/W	0: Auto mode 1: Manual mode	0
Remote/Local transfer RUN/STOP transfer	SR	0440	1088	31 31	R/W	0: Local mode 1: Remote mode 0: RUN (control start)	0
Memory area transfer	ZA	0480	1152	31	R/W	1: STOP (control stop) 1 to 8	1
Interlock release	IL	04A0	1184	31	R/W	O: Interlock release (execution/state) I: Interlock state "1" is for monitoring the interlocked state. Under this condition, do not write "1." O: Interlock release (execution/state) Interlock state In	0
Event 1 set value Event 2 set value	A1	04C0 04E0	1216 1248	31 31	R/W R/W	Deviation: -Input span to +Input span 1	50 50
Event 2 set value	A2 A3	0500	1248	31	R/W	Process and set value: Input scale low to Input scale high ¹ Manipulated output value	50
Event 4 set value	A4	0520	1312	31	R/W	(MV1 or MV2): -5.0 to +105.0 %	50
Control loop break alarm	A5	0540	1344	31	R/W	0 to 7200 seconds (0: Unused)	480
(LBA) time LBA deadband	N1	0560	1376	31	R/W	0 to Input span ¹	0
Set value (SV)	S1	0580	1408	31	R/W	Setting limiter low to Setting limiter high ¹	TC/RTD inputs: 0 V/I inputs: 0.0
Proportional band [heat-side]	P1	05A0	1440	31	R/W	TC/RTD inputs: 0 (0.0, 0.00) to Input span 1 (Unit: °C [°F]) 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: 30.0
Integral time [heat-side]	I1	05C0	1472	31	RW	PID control or Heat/Cool PID control: 0 to 3600 seconds or 0.0 to 1999.9 seconds ² (0, 0.0: PD action) ³ Position proportioning PID control: 1 to 3600 seconds or 0.1 to 1999.9 seconds ²	240
Derivative time [heat-side]	D1	05E0	1504	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ² (0, 0.0: PI action)	60
Control response parameter	CA	0600	1536	31	R/W	O: Slow 1: Medium 2: Fast [When the P or PD action is selected, this setting becomes invalid.]	PID control, Position proportioning PID control: 0 Heat/Cool PID control: 2
Proportional band [cool-side]	P2	0620	1568	31	R/W	TC/RTD inputs: 1 (0.1, 0.01) to Input span ¹ (Unit: °C [°F]) Voltage (V)/Current (I) inputs: 0.1 to 1000.0 % of input span	TC/RTD inputs: 30 V/I inputs: 30.0
Integral time [cool-side]	12	0640	1600	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ² (0, 0.0: PD action) ³	240
Derivative time [cool-side]	D2	0660	1632	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds ² (0, 0.0: PI action)	60
Overlap/Deadband	V1	0680	1664	31	R/W	TC/RTD inputs: -Input span to +Input span ¹ (Unit: ^C [*F]) Voltage (V//Current (I) inputs: -100.0 to +100.0 % of input span Minus (-) setting results in Overlap. However, the overlapping range is within the proportional range.	0
Manual reset Setting change rate limiter (up) Setting change rate	MR HH	06A0 06C0	1696 1728	31	R/W R/W	-100.0 to +100.0 % 0 to Input span/unit time * 1 (0: Unused) * Unit time: 60 seconds	0.0
Setting change rate limiter (down) Area soak time	HL TM	06E0 0700	1760 1792	31	R/W R/W	(factory set value) 0 to 11999 seconds or	0:00
Link area number	LP	0720	1824	31	R/W	0 to 5999 minutes 0 to 8 (0: No link)	0
Heater break alarm 1 (HBA1) set value	A7	0740	1856	31	R/W	CTL-6-P-N: 0.0 to 30.0 A (0.0: Unused) CTL-12-S56-10L-N: 0.0 to 100.0 A (0.0: Unused)	0.0
Heater break determination point 1	NE	0760	1888	31	R/W	0.0 to 100.0 % of HBA1 set value (0.0: Heater break determination is invalid)	30.0
Heater melting determination point 1	NF	0780	1920	31	R/W	0.0 to 100.0 % of HBA1 set value (0.0: Heater melting determination is invalid)	30.0
Heater break alarm 2 (HBA2) set value	A8	07A0	1952	31	R/W	CTL-6-P-N: 0.0 to 30.0 A (0.0: Unused) CTL-12-S56-10L-N: 0.0 to 100.0 A (0.0: Unused)	0.0
Heater break determination point 2	NH	07C0	1984	31	R/W	0.0 to 100.0 % of HBA2 set value (0.0: Heater break determination is invalid)	30.0
Heater melting determination point 2	NI	07E0	2016	31	R/W	0.0 to 100.0 % of HBA2 set value (0.0: Heater melting determination is invalid)	30.0
PV bias PV digital filter	PB F1	0800 0820	2048 2080	31 31	R/W R/W	-Input span to + Input span 1 0.0 to 100.0 seconds (0.0: Unused)	0.0

³ When the heat-side or cool-side integral time is set to zero for Heat/Cool PID control, PD action will take place for both heat-side and cool-side.

	RKC	Mod						
Name	Iden-	regis addr			Attri- bute	Data range	Factory set value	
	tifier	HEX	DEC	o. uata	Jule		JUL VAIUE	
PV ratio	PR	0840	2112	31	RW	0.500 to 1.500	1.000	
PV low input cut-off	DP	0860	2144	31	R/W	0.00 to 25.00 % of input span	0.00	
RS bias	RB	0880	2176	31	R/W	-Input span to + Input span a	0	
RS digital filter	F2	08A0	2208	31	R/W	0.0 to 100.0 seconds (0.0: Unused)	0.0	
RS ratio	RR	08C0	2240	31	R/W R/W	0.001 to 9.999	1.000	
Proportional cycle time 'heat-side]	T0	08E0	2272	31	R/VV	O.1 to 100.0 seconds M: Relay contact output	M output: 20.0	
	T4	0900	0004	04	DAA	V: Voltage pulse output	V, T, D	
Proportional cycle time [cool-side]	T1	0900	2304	31	R/W	T: Triac output	output: 2.0	
	ON	0000	0000	24	DAA	D: Open collector output	0.0	
Manual manipulated output value	ON	0920	2336	31	RW	PID control: Output limiter low [MV1] to Output limiter high [MV1] Heat/Cool PID control: -Output limiter high [MV2] to +Output limiter high [MV1] (-105.0 to +105.0 %) Position proportioning PID control with feedback resistance (FBR) input: Output limiter low [MV1] to Output limiter high [MV1]	0.0	
Set lock level	LK	0940	2368	31	RW	Bit data Bit 0: Lock only setting items other than SV and event set value (EV1 to EV4) Bit 1: Lock only event set value (EV1 to EV4) Bit 2: Lock only set value (SV) Bit 3 to Bit 15: Unused Data 0: Unlock 1: Lock [Decimal number 0 to 7]	0	
STOP display ^b	DX	0960	2400	31	RW	O: SToP is displayed on the PV display 1: SToP is displayed on the SV	1	
Bar graph display ^b	DA	0980	2432	31	R/W	display 0: No display 4: Deviation value 1: MV 5: CT1 input value	1	
Bar graph display	DE	09A0	2464	31	RW	2: PV 6: CT2 input value 3: SV monitor 1 to 100 digit/dot	100	
Bar graph display resolution ^b	טכ	UAGU	2404	31	1444	The resolution can be changed when the bar graph display was set to deviation value or CT input value.	100	
Direct key 1 ^b [FB100] Direct key selection	DK	09C0	2496	31	RW	[FB100] 0: Unused 1: Used [FB400/900] 0: Unused	1	
Direct key 2 b, c	DL	09E0	2528	31	RW	A/M transfer key (Type 1, Type 2) Unused MONI key (For type 1) or R/L transfer key (For type 2)	1	
Direct key 3 b,c	DM	0A00	2560	31	RW	O: Unused AREA key (For type 1) or RUN/STOP transfer key	1	
Direct key type ^b	DN	0A20	2592	31	RW	(For type 2) [FB100] 1: Auto/Manual transfer 2: Monitor 3: Memory area transfer 4: Remote/Local transfer 5: RUNVSTOP transfer [FB400/900] 1: Type 1 2: Type 2	1	
or the data, refer to the C				_ •				
Startup tuning (ST) Engineering mode	ST	1960	6496	31	RW	O: ST unused 1: Execute once * 2: Execute always * When Startup tuning is finished, the setting will automatically return to "O: ST unused."	0	
For the data, refer to the C							ı	
Automatic temperature rise learning	Y8	1A20	6688	31	RW	O: Unused Learning* When the Automatic temperature rise learning is finished, the setting will automatically returns to "0: Unused."	1	
Engineering mode data, N	lemory a	area data	and Mo	odbus dat	a mapp	ing address data	1	
For each data, refer to the Comprehensive alarm state	AM AM	3800	14336	anual (IM	RO RO	7-EDJ. Bit data Bit 0: Burnout state Bit 1: Burnout state of feedback resistance (FBR) input Bit 2: Event 1 state Bit 3: Event 2 state Bit 4: Event 3 state Bit 4: Event 3 state Bit 6: Heater break alarm 1 (HBA1) state Bit 7: Event 1 state Bit 7: Event 1 state Bit 6: Heater break alarm 2 (HBA2) state Bit 7: Leater break alarm 1 (De De D		

Name			Mod	bus				
HEXT DEC	Name		regi	ster			Data range	
Controller states	Humo				of data	bute	Data range	set value
State	Controller alarm	AN			2	RO	Bit data	_
Bit OB Bit Controller 17 to 31 Data CoFF 1: ON	state 1						·	
Bit 0 bit 14 Controller 17 to 3								
Decimal number De SESSS OPT								
Part								
Ez								
Error state								
Group 1: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 14: Controller 1 to 16 Group 2: Bit 0 to Bit 14: Controller 1 to 16 Group 2: Bit 0 to Bit 14: Controller 1 to 16 Group 2: Bit 0 to Bit 14: Controller 1 to 16 Group 3: Bit 0 to Bit 15: Controller 1 to 16 Group 1: Bit 0 to Bit 15: Controller 1 to 16 Group 1: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 14: Controller 1 to 16 Group 2: Bit 0 to Bit 10: Controller 1 to 16 Group 2: Bit 10: Controller 2 Bit 14: Bit 14: Linuaed 2 Bit 14: Bit 14: Linuaed 3 Bit 14: Bit 14:	Error state 1	EZ	3803	14339	2	RO		_
STUP 2								
Bit 0 to Bit 14: Controller 17 to 31 Data 0.0FF 1: CN Decimal number 0 to 65536] Or 60 Controller state 2 (Interfier AQ, Register address. 3840+1) O Group 1: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16 Group 2: Bit 0 to Bit 15: Controller 1 to 16: Bit 15:								
Decimal number 0 to 65536 Ord Controller state 2 (Mentifier AQ, Royal Bit data Group 1: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 16 Group 2: Bit 0 to 18 to 15 controller 1 to 18 Group 3: Bit 0 to 18 to 15 controller 1 to 18 Group 3: Bit 0 to 18 to 15 controller 5 R. Register address 3460th) Data o t. RUN 1: STOP Decimal number 0 to 655505 Link RUNSTOP transfer (Identifier SR. Register address 3460th) Data o t. RUN 1: STOP Decimal number 0 to 65505 Link RUNSTOP transfer (Identifier SR. Register address 3460th) Data o t. RUN 1: Data between 5 to 65505 Link RUNSTOP transfer (Identifier SR. Register address 3460th) Data o t. RUN 1: Data between 5 to 15 controller state 1								
RUNSTOP 1 SW 3805 14341 2 RW Bridger All Register address 3840+1 Register 3840								
Register address: 38404H								
Group 1: Bit to De Bt 15: Controller 1 to 16 Group 2: Bit to De Bt 15: Controller 17 to 31 Data 0: RUN 1: STOP Dickman number. Ot o 65:355 Link RUNSTOP transfer (identifier SR, Register address 0:400H) Text of the controller state 1								
Bit 0 to Bit 1st. Controller 1 to 16 Group 2	RUN/STOP 1	SW	3805	14341	2	RW	Bit data	0
Group 2							·	
Bit 0 to Bit 14: Controller 17 to 31 Data or RUN								
Decimal number 1 to 86535 Link RUNSTOP transfer (identifier SR, Register address 0460H)								
Data updating flag								
Data updating flag							F	
Deta updating flag							,	
AK 3820 14368 31 RO Be data Br 0: Burnout state of feedback resistance (FBR) riput Br 1: Burnout state of feedback resistance (FBR) riput Br 2: Event 1 state Br 3: Event 2 state Br 4: Event 3 state Br 4: Event 3 state Br 5: Event 4 state Br 5: Event 4 state Br 6: Event 4 state Br 6: Event 4 state Br 7: Heater break starm 2 (HBAz) state Br 8: Event 3 state Br 7: Heater break starm 2 (HBAz) state Br 8: Br 8: Event 4 state Br 7: Heater break starm 2 (HBAz) state Br 8: Br 8: Br 7: Event 4 state Br 7: Ev	Data updating flag	CZ	3807	14343	1	RO		_
Bit 0: Burnout state							1: Data being updated	
Bit : Burnout state of feedback resistance (FBR) input	Controller state 1	AK	3820	14368	31	RO		
Brain Brai								
Bit 3: Event 2 state Bit 4: Event 3 state Bit 4: Event 3 state Bit 6: Event 4 state Bit 6: Event 4 state Bit 6: Event 4 state Bit 7: Heater break alarm 2 (HBA2) state Bit 8 to Bit 15: Unused Data 0: OFF 1: CN [Decimal number: 0 to 255] Bit data Bit data Bit data Bit data Bit data Bit 0: Adjustment data error Bit 8: Back-up error Bit 9: Unused Bit 3: Bit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 19: Controller communication error Data 0: OFF 1: CN [Decimal number: 0 to 35239] Bit 12: Controller state 3								
Bit 4: Event 3 state								
Bit 5: Event 4 state Bit 6: Heater break alarm 1 (HBA1) state Bit 6: Heater break alarm 2 (HBA2) state Bit 8: to Bit 15: Unused Data 0: OFF 1: CN Decimal number: 0 to 255								
Bit 7: Heater break alarm 2 (HBA2) state Bit 8 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 265] Bit 6: Bit 8: Dit 8: 15: Back-up error Bit 2: APD conversion error Bit 3: APD conversion error Bit 6: Louised Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: Dit 10: Unused Bit 1: Back-up error Bit 8: Stack overflow Bit 9: Dit 10: Unused Bit 1: 12: Dit 14: Dit 13: Unused Bit 1: Dit 13: Dit 13: Unused Bit 1: Dit 13: Dit 13: Unused Bit 1: Dit 13: Dit 13								
Bit 8 to Bit 15: Unused Date 0: OFF 1: ON Decimal number: 0 to 255 Date 0: OFF 1: ON Decimal number: 0 to 255 Date 0: OFF 1: ON Decimal number: 0 to 255 Date 0: OFF 1: ON Decimal number: 0 to 255 Date 0: Adjustment data error Bit 1: Back-up error Bit 2: A/D conversion error Bit 2: A/D conversion error Bit 3: to Bit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Shack-overflow Bit 9: to Bit 10: Unused Bit 11: Program error (busy) Bit 12: DBit 14: Unused Bit 11: Program error (busy) Bit 12: DBit 14: Unused Bit 11: Program error (busy) Bit 15: Controller communication error Data 0: OFF 1: ON Decimal number: 0 to 352:39 Date 14: Date 15: Control STOP Bit 1: Control STOP Bit 1: Control STOP Bit 1: Control STOP Bit 1: Back-up memory state monitor Bit 14: Backup memory state monitor Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON Decimal number: 0 to 49167 Data 0: OFF 1: ON Decimal num								
Data Coffe 1: ON								
AQ 3840 14400 31 RO Bit data Bit 0: Adjustment data error Bit 2: AD conversion error Bit 2: AD conversion error Bit 2: AD conversion error Bit 3: Bit 4: Unused Bit 5: Custom data error Bit 8: Stack overflow Bit 9: DB It 10: Unused Bit 11: Program error (busy) Bit 12: DB It 14: Unused Bit 11: Program error (busy) Bit 12: DB It 14: Unused Bit 11: Control RUN Bit 12: DB It 14: Unused Bit 11: Control RUN Bit 2: DB It 3: Remote Bit 13: Control RUN Bit 2: DB It 3: Remote Bit 13: Control RUN Bit 2: DB It 3: Remote Bit 14: Backup memory state monitor Bit 14: Backup memory Bit 14: Backup memor								
Bit 0: Adjustment data error Bit 2: AD conversion error Bit 2: AD conversion error Bit 2: AD conversion error Bit 3: Subst 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 6: Unused Bit 11: Program error (Ussy) Bit 12 to Bit 14: Unused Bit 11: Program error (Ussy) Bit 12 to Bit 14: Unused Bit 11: Program error (Ussy) Bit 12 to Bit 14: Unused Bit 11: Program error (Ussy) Bit 12 to Bit 14: Unused Bit 11: Program error (Ussy) Bit 12: Distance Bit 0: Control RUN Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 3: Remote mode 2 Bit 4: Bit 13: Unused Bit 14: Backup memory state monitor Bit 14: Backup memory Bi								
Bit 1: Back-up error Bit 2: A/D conversion error Bit 3: Dit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: Dit 8: Stack overflow Bit 9: Dit 8: Stack overflow Bit 9: Dit 8: Stack overflow Bit 10: Unused Bit 11: Program error (busy) Bit 12: Dit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON Decimal number: 0 to 35239 Decimal number: 0 to 49167 Decimal number: 0 to	Controller state 2	AQ	3840	14400	31	RO		_
Bit 2: AD conversion error Bit 3: to Bit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: to Bit 10: Unused Bit 11: Program error (busy) Bit 12: to Bit 14: Unused Bit 11: Program error (busy) Bit 12: to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON Decimal number: 0 to 35239 Bit data 0: Control Bit 0: Control STOP Bit 14: Bit 13: Unused Bit 14: Backup memory state monitor Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 3: Remote mode 2 Bit 4: Bit 3: Unused Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON Decimal number: 0 to 49167 Data 0:								
Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: Dit 10: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: Dit 10: Unused Bit 11: Program error (busy) Bit 12: Dit 11: Unused Bit 11: Program error (busy) Bit 12: Dit 11: Unused Bit 15: Control Bit 15: Control error Data 0: OFF 1: ON Decimal number: 0 to 35239 Dit 12: Dit 11: Dit 11: Dit 11: Dit 12: Manual mode 2 Bit 0: Control STOP Bit 1: Control RUN Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 4: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON Decimal number: 0 to 49167 Data 0: OFF 1: ON Deta 0:							Bit 2: A/D conversion error	
Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9: Bit 10: Unused Bit 11: Frogram error (busy) Bit 12: to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON [Decimal number: 0 to 35239] Decimal number: 0 to 49167] Data 0: OFF 1: ON Decimal number: 0 to 49167] Decimal n								
Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9 to Bit 10: Unused Bit 11: Program error (busy) Bit 12 to Bit 14: Unused Bit 11: Program error (busy) Bit 12 to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON Decimal number: 0 to 35239 Decimal number: 0 to 49167 Decimal number: 0								
Bit 9 to Bit 10: Unused Bit 11: Program error (busy) Bit 12 to Bit 14: Unused Bit 11: Program error (busy) Bit 12 to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON [Decimal number: 0 to 35239]							Bit 7: Watchdog timer error	
Bit 11: Program error (busy) Bit 12 to Bit 14: Unused Bit 15: Controller communication error Data 0: OFF 1: ON Decimal number: 0 to 35239 Decimal number: 0 to 49167 Deta: 0: OFF 1: ON Decimal number: 0 to 49167 Decimal number								
Bit 12 to Bit 14: Unused Bit 15: Controller communication error Data								
Data 0: OFF 1: ON [Decimal number: 0 to 35239] Data 0: OFF 1: ON [Decimal number: 0 to 35239] Data 0: OFF 1: ON [Decimal number: 0 to 35239] Data 0: Ortrol STOP Bit 1: Control RUN Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 4: to Bit 13: Unused Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON [Decimal number: 0 to 49167] Data 0: OFF 1: ON ON ON ON ON ON ON ON							Bit 12 to Bit 14: Unused	
Controller state 3								
AS 3860 14432 31 RO Bit data Bit 0: Control STOP Bit 1: Control RUN Bit 2: Manual mode 2 Bit 4 to Bit 13: Unused Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]								
Bit 0: Control STOP Bit 1: Control RUN Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 4 to Bit 13: Unused Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]	Controller state 3	AS	3860	14432	31	RO		_
Bit 2: Manual mode 2 Bit 3: Remote mode 2 Bit 3: Remote mode 2 Bit 4: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]								
Bit 3: Remote mode 2 Bit 4 to Bit 13: Unused Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]								
Bit 14: Backup memory state monitor Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167] Station number								
Bit 15: Autotuning (AT) Data 0: OFF 1: ON [Decimal number: 0 to 49167]								
Data 0 OFF 1: ON Decimal number: 0 to 49167								
Decimal number: 0 to 49167								
PC number 3								
Register start number ⁴	Station number							
Maximum controller number of PLC communication Register type QZ 8004 32772 1 R/W 1 to 31 10 RRW MITSUBISHI PLC 0. D register b 1: R register c 6: W register c 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register) a A-compatible 1C frame b CmA-compatible 3C frame ■ OMRON PLC 0: DM register (Data memory) (Specify the bank No.) Set the bank No.1 Set the sone (Extended data memory) (Specify the current bank) 1 to 9, 23 to 28: Do not set this one								
number of PLC communication Register type QZ 8004 32772 1 R/W •MITSUBISHI PLC 0 Degister b 1: R register a 5: R register b 1: R register a 6: W register b 2: W register b 3: ZR register b 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register) a A-compatible 1C frame b CMR-ON PLC D: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
Communication Register type QZ 8004 32772 1 R/W •MITSUBISHI PLC 0: D register * 4: D register * 5: R register * 5: R register * 6: W register * 6: W register * 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register, R: File register, W: Link register) a "A-compatible 1C frame b QnA-compatible 3C frame •OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one	number of PLC	QΪ	0003	52111		1000	1.001	10
0: D register ^a 4: D register ^b 1: R register ^a 5: R register ^b 2: W register ^a 6: W register ^b 3: ZR register ^b 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register) a A-compatible 1C frame b CMA-compatible 3C frame ΦOMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one	communication							
1: R register ^a 5: R register ^b 2: W register ^a 6: W register ^b 3: ZR register ^b 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register, R: File register, W: Link register (D: Tame ^a A-compatible 1C frame ^b QnA-compatible 3C frame • OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one	Register type	QZ	8004	32772	1	R/W		0
2: W register a 6: W register b 3: ZR register b 7 to 29: Do not set this one (D: Data register, R: File register, W: Link register) a A-compatible 1C frame b CnA-compatible 3C frame • OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) (Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) (Specify the current bank) 1 to 9, 23 to 28: Do not set this one								
7 to 29: Do not set this one (D: Data register, R: File register, W: Link register) a A-compatible 1C frame b Cha-compatible 3C frame ● OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one							2: W register ^a 6: W register ^b	
(D: Data register, R: File register, W: Link register) a A-compatible 1C frame b QnA-compatible 3C frame ● OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
W: Link register) a A-compatible 1C frame b QnA-compatible 3C frame ● OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
b OnA-compatible 3C frame ●OMRON PLC 0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
OMRON PLC D: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
0: DM register (Data memory) 10 to 22: EM register (Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one							-	
10 to 22: EM register (Extended data memory) (Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) (Specify the current bank) 1 to 9, 23 to 28: Do not set this one								
(Extended data memory) [Specify the bank No.] Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one							10 to 22: EM register	
Set the bank No.+10. 29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one							(Extended data memory)	
29:EM register (Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
(Extended data memory) [Specify the current bank] 1 to 9, 23 to 28: Do not set this one								
1 to 9, 23 to 28: Do not set this one							(Extended data memory)	
	1 Group 1 and Group 2	are snee	ified for #	ne RKC	COmmin	ication	-, o oot allo ono	

Group 1 and Group 2 are specified for the RKC communication.

	RKC	Modbus					
Name	Iden-	register address		Number of data	Attri- bute	Data range	Factory set value
	tifier	HEX	DEC				
Monitor item selection	QS	8006	32774	1	RW	Bit data Bit 0: Measured value (PV) Bit 1: Current transformer 1 (CT1) input value monitor Bit 2: Current transformer 2 (CT2) input value monitor Bit 3: Set value (SV) monitor Bit 4: Remote setting (RS) input value monitor Bit 5: Manipulated output value (MV1) monitor [heat-side] Bit 6: Manipulated output value (MV2) monitor [cool-side] Bit 7: Digital input (DI) state monitor Bit 8: Output state monitor Bit 9: Controller state 1 Bit 10: Controller state 2 Bit 11: Controller state 3 Bit 12 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 4095]	4095
COM-JE link recognition time ¹	QT	8007	32775	1	R/W	0 to 255 seconds	10
COM-JE error code	ES	8008	32776	1	RO	Bit data Bit 0: Back-up error Bit 1: Unused Bit 2: Controller communication error Bit 3 to Bit 6: Unused Bit 7: PLC communication error Bit 8 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 133]	_
PLC scanning time	VT	8009	32777	1	R/W	0 to 3000 ms	255
Number of connected controller in controller communication	QP	800B	32779	1	RO	0 to 31	1
Action mode selection	RZ	800C	32780	1	RW	Bit data Bit 0: Address setting 0: Continuous setting 1: Free setting Bit 1: PLC register read/write error elimination 0: Manual elimination 1: Automatic elimination Bit 2 to Bit 7: Reserve (This item is fixed at 0) Do not set 1 for Reserve [Decimal number: 0 to 3]	0
Selecting the controller communication block ²	R4	800D	32781	1	R/W	Bit data Bit 0: On and after No. 83 of FB100/400/900 communication data items Bit 1: Memory area data items Bit 2: Data mapping address items Bit 3 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 7] FB100/400/900 communication data No. 1 to 82 and COM-JE communication data become valid unconditionally regardless of the setting.	0
PLC communication start time	R5	800F	32783	1	R/W	1 to 255 seconds	5
Register start number high-order 4 bits ³	VX	8012	32786	1	R/W	0 to 15	0
Transmmision wait time of controller communication	ZZ	8018	32792	1	R/W	0 to 100 ms	0
Initial setting mode 4	IN	8020	32800	1	R/W	Normal setting mode Initial setting mode	0

¹ It is necessary to make the setting only to the master (COM-JE address: 0, 4, 8 or C) in the controller communication

: PLC communication environment setting items

These items become valid by turning off the power once, and then turning on again after the settings are

These items become valid by turning oil the power office, and their turning on ogenication to the setting via this possible to set the PLC communication environment by the COM-JE switch in addition to the setting via Host communication. For PLC communication environment setting by the switch, refer to the COM-JE Quick Instruction Manual (IMR01Y12-EEI).

Modbus is a registered trademark of Schneider Electric The name of each programmable controller (PLC) means the products of each manufacturer. Company names and product names used in this manual are the trademarks or registered trademarks of the respective companies.

 RKC INSTRUMENT INC.
 The first edition: The fifth edition

Varies with the setting of the Decimal point position selection.
 Varies with the setting of the Integral/Derivative time decimal point position selection.

b The attribute becomes RO (Read only data) during RUN (control).

^c Unused on the FB100.

For Modbus, the smaller Modbus register address is for data corresponding to Group 1, while the larger Modbus register address is for data corresponding to Group 2.

During operation in Manual mode, the Manual mode of the Operation mode state monitor is set to the "1: ON" state and the Remote mode of the same monitor is set to the "0: OFF" state even if the parameter, Remote/Local transfer is set to "1: Remote mode."

Do not set for the OMRON SYSMAC series.

MITSUBISHI MELSEC series (A-compatible 1C frame) and OMRON SYSMAC series

Data range: 0 to 9937

² It is possible to communicate only the items specified by Selecting the controller communication block. In addition, it

is possible to communicate only the items specified here by the Specified data transfer type. For the data, refer to the COM-JE Instruction Manual (IMR01Y07-ECI).

Valid only when OnA-compatible 3C frame (excluding the R register) of the MITSUBISHI PLC is selected.
 For the Initial setting mode, refer to the COM-JE Instruction Manual (IMR01Y07-ED).