



## 2.2 Memory Area Data

The register addresses, 2000H to 22BFH are used for checking and changing each set value belonging to the memory area.

Name	Register address		Number of data	Attribute	Data range	Factory set value
	HEX	DEC				
Setting memory area number	2000	8192	31	R/W	1 to 8	1
Event 1 set value	2020	8224	31	R/W	Deviation: -Input span to +Input span	50
Event 2 set value	2040	8256	31	R/W	Process and set value: -Input span to +Input span	50
Event 3 set value	2060	8288	31	R/W	Input scale low to Input scale high Manipulated output value (MV1 or MV2): -5.0 to +105.0 %	50
Event 4 set value	2080	8320	31	R/W		50
Control loop break alarm (LBA) time	20A0	8352	31	R/W	0 to 7200 seconds (0: Unused)	480
LBA deadband	20C0	8384	31	R/W	0 to Input span	0
Set value (SV)	20E0	8416	31	R/W	Setting limiter low to Setting limiter high	TC/RTD inputs: 0 V/I inputs: 0.0
Proportional band [heat-side]	2100	8448	31	R/W	TC/RTD inputs: 0 (0.0, 0.00) to Input span (Unit: °C [°F]) <sup>1</sup> 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]	2120	8480	31	R/W	PID control or Heat/Cool PID control: 0 to 3600 seconds or 0.0 to 1999.9 seconds <sup>2</sup> (0, 0.0: PD action) <sup>3</sup> Position proportioning control: 1 to 3600 seconds or 0.1 to 1999.9 seconds <sup>2</sup>	240
Derivative time [heat-side]	2140	8512	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds <sup>2</sup> (0, 0.0: PI action)	60
Control response parameter	2160	8544	31	R/W	0: Slow 1: Medium 2: Fast [When the P or PD action is selected, this setting becomes invalid.]	PID control, Position proportioning control: 0 Heat/Cool PID control: 2
Proportional band [cool-side]	2180	8576	31	R/W	TC/RTD inputs: 1 to Input span, 0.1 to Input span or 0.01 to Input span (Unit: °C [°F]) <sup>1</sup> 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]	21A0	8608	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds <sup>2</sup> (0, 0.0: PD action) <sup>3</sup>	240
Derivative time [cool-side]	21C0	8640	31	R/W	0 to 3600 seconds or 0.0 to 1999.9 seconds <sup>2</sup> (0, 0.0: PI action)	60
Overlap/Deadband	21E0	8672	31	R/W	TC/RTD inputs: -Input span to +Input span (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	2200	8704	31	R/W	-100.0 to +100.0 %	0.0
Setting change rate limiter (up)	2220	8736	31	R/W	0 to Input span/unit time * (0: Unused)	0
Setting change rate limiter (down)	2240	8768	31	R/W	* Unit time: 60 seconds (factory set value)	0
Area soak time	2260	8800	31	R/W	0 to 11999 seconds or 0 to 5999 minutes	0:00
Link area number	2280	8832	31	R/W	0 to 8 (0: No link)	0
Unused	22A0	8864	32	—	—	—

<sup>1</sup> Varies with the setting of the Decimal point position selection.

<sup>2</sup> Varies with the setting of the Integral/Derivative time decimal point position selection.

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

## 2.3 COM-JL Communication Data

The register addresses, FA00H (64000) or more are used for checking and changing each set value of the COM-JL.

□ : The value of this item should always be set to 0 (FB100/400/900).

◆ : These items become valid by turning off the power of the COM-JL once, and then turning it on again after the settings are changed.

♣ : This setting (factory set value: 32) causes each address to be shifted by 32 for each communication item in the FB100/400/900 Communication Data and Memory Area Data. **Therefore, exercise sufficient care if you change the setting as the data mappings will also change.**

Name	Register address		Number of data	Attribute	Data range	Factory set value
	HEX	DEC				
Unused	FA00	64000	1	—	—	—
	⋮	⋮	⋮	⋮	⋮	⋮
	FA07	64007	1	—	—	—
COM-JL error code	FA08	64008	1	RO	Bit data Bit 0: Memory backup error Bit 1: RAM error Bit 2: Controller configuration error Bit 3: Unused Bit 4: Ethernet hardware error Bit 5 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 23]	—
Unused	FA09	64009	1	—	—	—
Number of connected controller in controller communication	FA0A	64010	1	RO	0 to 31	—
Number of connected channel in controller communication	FA0B	64011	1	RO	0 to 128	—
Action mode selection ◆	FA0C	64012	1	R/W	Bit data Bit 0: Address setting 0: Continuous setting 1: Free setting Bit 1 to Bit 15: Unused [Decimal number: 0 to 1]	Bit 0: 0 Bit 1 to 15: 0 [Decimal number: 0]
Number of connectable controller channels ♣ ♣	FA0D	64013	1	R/W	1 to 128	32
Transmission wait time of controller communication	FA0E	64014	1	R/W	0 to 100 ms	0
Backup memory state monitor	FA0F	64015	1	RO	0: 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	—
Unused	FA10	64016	1	—	—	—
	⋮	⋮	⋮	⋮	⋮	⋮
	FA27	64039	1	—	—	—
No. 1 Controller type	FA28	64040	1	R/W	0 to 65534 0: FB100/400/900	0
	⋮	⋮	⋮	⋮	⋮	⋮
No. 31 Controller type	FA46	64070	1	R/W	0 to 65534 0: FB100/400/900	0
Unused	FA47	64071	1	—	—	—
No. 1 Controller state	FA48	64072	1	RO	Bit data Bit 0: Presence or absence of controller Bit 1: Presence or absence of abnormal response Bit 2 to Bit 15: Unused Data 0: Absence 1: Presence [Decimal number: 0 to 3]	—
	⋮	⋮	⋮	⋮	⋮	⋮
No. 31 Controller state	FA66	64102	1	RO	Bit data Bit 0: Presence or absence of controller Bit 1: Presence or absence of abnormal response Bit 2 to Bit 15: Unused Data 0: Absence 1: Presence [Decimal number: 0 to 3]	—
Unused	FA67	64103	1	—	—	—
No. 1 Controller address	FA68	64104	1	R/W	1 to 99 0: There is no connection controller	1
	⋮	⋮	⋮	⋮	⋮	⋮
No. 31 Controller address	FA86	64134	1	R/W	1 to 99 0: There is no connection controller	31
Automatic acquisition of controller address	FA87	64135	1	R/W	0: Do not execute the automatic acquisition 1: Execute the automatic acquisition * * Automatically reverts to 0 after automatic acquisition ends.	0

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