Make Life Easy

USER MANUAL
for COMMUNICATION

Recorder

KRN100 Series

DRW190831AA

Thank you for purchasing an Autonics product.
This user manual contains information about the product and its proper use,
and should be kept in a place where it will be easy to access.

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Preface

Thank you for choosing our Autonics products.

Please familiarize yourself with the information contained in the **Safety Considerations** section before using this product.

This user manual for communication contains information about the product and its proper use, and should be kept in a place where it will be easy to access.

User Manual Guide

This user manual for communication contains information about the product and its proper use, and should be kept in a place where it will be easy to access.

- Please familiarize yourself with the information in this manual before using the product.
- This manual provides detailed information on the products features. It does not offer any guarantee concerning matters beyond the scope of this manual.
- This manual may not be edited or reproduced in either part or whole without permission.
- A user manual is not provided as part of the product package.
  Visit our home-page (www.autonics.com) to download a copy.
- The manuals content may vary depending on changes to the products software and other unforeseen developments within Autonics, and is subject to change without prior notice.
- We contrived to describe this manual more easily and correctly. However, if there are any corrections or questions, please notify us these on our homepage.

User Manual for Communication Symbols

Symbol	Description
 Note	Supplementary information for a particular feature.
 Warning	Failure to follow instructions can result in serious injury or death.
 Caution	Failure to follow instructions can lead to a minor injury or product damage.
 Ex.	An example of the concerned features use.
※1	Annotation mark.

Safety Considerations

- Please observe all safety considerations for safe and proper product operation to avoid hazards.
- Safety considerations are categorized as follows.

Warning	Warning	Failure to follow these instructions may result in serious injury or death.
Caution	Caution	Failure to follow these instructions may result in personal injury or product damage.

Warning

- Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.)

  Failure to follow this instruction may result in personal injury, economic loss or fire.
- Do not connect, repair, or inspect the unit while connected to a power source.

  Failure to follow this instruction may result in fire or electric shock.
- Check 'Connections' before wiring.

  Failure to follow this instruction may result in fire.
- Do not touch the product during operation or for a certain period of time after stopping.

  Failure to follow this instruction may result in burn or fire.
- Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.

  Failure to follow this instruction may result in explosion or fire.
- Install on the device panel or DIN rail, and ground to the F.G. terminal separately.

  When connecting the F.G. terminal, use AWG16(1.25mm^2) or over.

  Failure to follow this instruction may result in fire or electric shock.
- Do not disassemble or modify the unit.

  Failure to follow this instruction may result in fire or electric shock.
- Since Lithium battery is embedded in the product, do not disassemble or burn the unit.
  Failure to follow this instruction may result in fire.

Caution

- Use the unit within the rated specifications.

  Failure to follow this instruction may result in fire or product damage.
- Use a dry cloth to clean the unit, and do not use water or organic solvent.

  Failure to follow this instruction may result in fire or electric shock.
- Keep the product away from metal chip, dust, and wire residue which flow into the unit.

  Failure to follow this instruction may result in fire or product damage.
- When connecting the power input or measurement input, use AWG20(0.50mm²) cable or over and tighten the terminal screw with a tightening torque of 0.74 to 0.9N.m.

  Failure to follow this instruction may result in fire or malfunction due to contact failure.
- Do not use the load beyond rated switching capacity contact.

  Failure to follow this instruction may result in fire, relay broken, contact melt, insulation failure or contact failure.
- Do not disassemble or assemble input/output card, when power is supplied.

  Failure to follow this instruction may result in product damage.
- Use the transmitter output terminals only as the power for the transmitter.

  Failure to follow this instruction may result in product damage.
- When connecting the temperature sensor(TC, RTD) or analogue input (voltage, current) as input to the universal input card, set the jumper pin to the correct place for the connected input method.

  If the jumper pin is placed improperly, it may result in product damage or malfunction.

※ **The specifications and dimensions of this manual are subject to change without notice.**

※ **Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage).**

Table of Contents

1 Modbus RTU protocol

1.1 Read Coil Status(Func01–01H)

Reads the output (OX reference, Coil) ON/OFF status in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points (Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data	Error Check(CRC16)	
						Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below example is to read the output status (ON: 1, OFF: 0) of 10EA within coil 00001(0000 H) to 00010(0009 H) on the Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	01 H	00 H	00 H	00 H	0A H	## H	## H

The below example is when coil 00008(0007 H) to 00001(0000 H) value on the Slave is “ON-ON-OFF-OFF-ON-ON-OFF-ON” and 00010(0009 H) to 00009(0008 H) value is “OFF-ON”.

- Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data (00008 to 00001)	Data (00010 to 00009)	Error Check(CRC16)	
					Low	High
11 H	01 H	02 H	CD H	01 H	## H	## H

1.2 Read Input Status(Func02–02H)

Reads the input (1X reference) ON/OFF status in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data	Error Check(CRC16)	
						Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below example is to read the input status (ON: 1, OFF: 0) of 10EA within 10001(0000 H) to 10010(0009 H) on the Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	02 H	00 H	00 H	00 H	0A H	## H	## H

The below example is when 10008(0007 H) to 10001(0000 H) value on the Slave is “ON-ON-OFF-OFF-ON-ON-OFF-ON” and 10010(0009 H) to 10009(0008 H) value is “OFF-ON”.

- Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data (00008 to 00001)	Data (00010 to 00009)	Error Check(CRC16)	
					Low	High
11 H	02 H	02 H	CD H	01 H	## H	## H

1.3 Read Holding Registers(Func03–03H)

Reads the binary data of Holding Registers(4X reference) in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data		Data		Data		Error Check(CRC16)	
			High	Low	High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below example is to read 2EA value within Holding Register 40001(0000 H) to 40002(0001 H) on the Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	03 H	00 H	00 H	00 H	02 H	## H	## H

The below example is when 40001(0000 H) value on the Slave is “555(22B H)” and 40002(0001 H) value is “100 (64 H)”.

- Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data		Data		Error Check(CRC16)	
			High	Low	High	Low	Low	High
11 H	03 H	04 H	02 H	2B H	00 H	64 H	## H	## H

1.4 Read Input Registers(Func04–04H)

Reads the binary data of Input Registers(3X reference) in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data	Error Check(CRC16)	
						Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below is to read 2EA value within Input Register 30001(0000 H) to 30002(0001 H) on the Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	04 H	00 H	00 H	00 H	02 H	## H	## H

The below example is when 30001(0000 H) value on the Slave is “10(A H)” and 30002(0001 H) value is “20(14 H)”.

- Response(Slave)

Slave Address	Function (Command)	Byte Count (Number of data byte)	Data		Data		Error Check(CRC16)	
			High	Low	High	Low	Low	High
11 H	04 H	04 H	00 H	0A H	00 H	14 H	## H	## H

1.5 Preset Single Registers(Func06–06H)

Writes the binary data of single Holding Registers (4X reference) in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Register Address		Preset Data(Data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Register Address		Preset Data(Data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below example is to write “10(A H)” at Holding Register 40001(0000 H) of Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		Preset Data(Data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	06 H	00 H	00 H	00 H	0A H	## H	## H

- Response(Slave)

Slave Address	Function (Command)	Starting Address		Preset Data(Data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	06 H	00 H	00 H	00 H	0A H	## H	## H

1.6 Preset Multiple Registers(Func16–10H)

Writes the binary data of Holding Registers (4X reference) continuously in the Slave device.

(1) Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Register (Number of register)		Byte Count (Number of data byte)	Data		Data		Error Check (CRC16)	
		High	Low	High	Low		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

(2) Response(Slave)

Slave Address	Function (Command)	Starting Address		No. of Register (Number of register)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

The below example is to write all “10(A H)” at Holding Register 40001(0000 H) to 40002(0001 H) of the Slave(Address 17) from the Master.

- Query(Master)

Slave Address	Function (Command)	Starting Address		No. of Register (Number of register)		Byte Count (Number of data byte)	Data		Data		Error Check (CRC16)	
		High	Low	High	Low		High	Low	High	Low	Low	High
11 H	10 H	00 H	00 H	00 H	02 H	04 H	00 H	0A H	00 H	0A H	## H	## H

- Response(Slave)

Slave Address	Function (Command)	Starting Address		No. of Register (Number of register)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	10 H	00 H	00 H	00 H	02 H	## H	## H

Except downloading the pre-designated min/max parameter accoriding to input specification or default value from PC loader program, it is recommended to use signle register write (Single Register Write) than multi register write (Multi Regiter Write) to connect external device such as PLC, graphic panel, etc.

1.7 Exception process (Exception Response-Error Code)

If communication error occurs, it sends response command and transmits the applicable Exception Code after setting(1) the highest-level bit of received commend (Function).

Slave Address	Function (Command) +80 H	Exception Code	Error Check(CRC16)	
			Low	High
1Byte	1Byte	1Byte	1Byte	1Byte

CRC16

- ILLEGAL FUNCTION (Exception Code: 01 H): Command is not supported.
- ILLEGAL DATA ADDRESS (Exception Code: 02 H): Starting address of the queried data is inconsistent with transmittable data address.
- ILLRGAL DATA VALUE (Exception Code: 03 H): The number of the queried data is inconsistent with the number of transmittable data.
- SLAVE DEVICE FAILURE (Exception Code: 04 H): Not properly completes the queried command.

The below example is to read the output status (ON: 1, OFF: 0) of non-existing coil 01001(03E8 H) on the Slave(Address 17) from the Master.

- Query (Master)

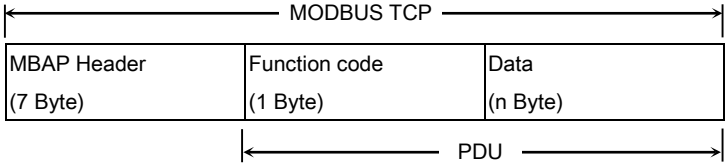
Slave Address	Function (Command)	Starting Address		No. of Points(Number of data)		Error Check(CRC16)	
		High	Low	High	Low	Low	High
11 H	01 H	03 H	E8 H	00 H	01 H	## H	## H

- Response (Slave)

Slave Address	Function (Command) +80 H	Exception Code	Error Check(CRC16)	
			Low	High
11 H	81 H	02 H	## H	## H

2 Modbus TCP protocol

Modbus TCP is the communication using TCP/IP network consisting of MBAP(MODBUS Application Protocol header) and PDU(Protocol Data Unit).



MBAP Header is as following table.

Fields	Length	Description	Slave (Client)	Master (Server)
Transaction Identifier	2 Byte	Transaction identifier	Allots from Client	Copies and transfers the received value from the Master
Protocol Identifier	2 Byte	Protocol identifier (0 = MODBUS protocol)	Allots from Client	Copies and transfers the received value from the Master
Length	2 Byte	Next data length	Next data length (Unit: Byte)	Next data length (Unit: Byte)
Unit Identifier	1 Byte	Identifier	Allots from Client	Copies and transfers the received value from the Master

TCP/IP communication port uses "502".
For more information about MODBUS TCP, refer to
http://modbus.org/docs/Modbus_Application_Protocol_V1_1b.pdf file.

2.1 Read Coil Status(Func01–01H)

Reads the output (OX reference, Coil) ON/OFF status in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to read the output status (ON: 1, OFF: 0) of 10EA within coil 000001(0000 H) to 000010(0009 H) on the Slave from Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
00 0a 00 00 00 06 01H	01 H	00 H	00 H	00 H	0A H

The below example is when coil 000008(0007 H) to 000001(0000 H) value on the Slave is “ON-ON-OFF-OFF-ON-ON-OFF-ON” and 000010(0009 H) to 000009(0008 H) value is “OFF-ON”.

- Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data (000008 to 000001)	Data (000010 to 000009)
00 0a 00 00 00 05 01H	01 H	02 H	CD H	01 H

2.2 Read Input Status(Func02–02H)

Reads the input (1X reference) ON/OFF status in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to read the input status (ON: 1, OFF: 0) of 10EA within 100001(0000 H) to 100010(0009 H) on the Slave from the Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
00 07 00 00 00 06 01H	02 H	00 H	00 H	00 H	0A H

The below example is when 100008(0007 H) to 100001(0000 H) value on the Slave is “ON-ON-OFF-OFF-ON-ON-OFF-ON” and 100010(0009 H) to 100009(0008 H) value is “OFF-ON”.

- Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data (000008 to 000001)	Data (000010 to 000009)
00 07 00 00 00 05 01H	02 H	02 H	CD H	01 H

2.3 Read Holding Registers(Func03–03H)

Reads the binary data of Holding Registers(4X reference) in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data		Data		Data	
			High	Low	High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to read 2EA value within Holding Register 400001(0000 H) to 400002(0001 H) on the Slave from the Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
00 0a 00 00 00 06 01H	03 H	00 H	00 H	00 H	02 H

The below example is when 400001(0000 H) value on the Slave is “555(22B H)” and 400002(0001 H) value is “100 (64 H)”.

- Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data		Data	
			High	Low	High	Low
00 0a 00 00 00 07 01H	03 H	04 H	02 H	2B H	00 H	64 H

2.4 Read Input Registers(Func04–04H)

Reads the binary data of Input Registers(3X reference) in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data	Data	Data
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to read 2EA value within Input Register 300001(0000 H) to 300002(0001 H) on the Slave from the Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
00 0b 00 00 00 06 01H	04 H	00 H	00 H	00 H	02 H

The below example is when 30001(0000 H) value on the Slave is “10(A H)” and 300002(0001 H) is “20(14 H)”.

- Response(Slave)

MBAP Header	Function (Command)	Byte Count (Number of data byte)	Data		Data	
			High	Low	High	Low
00 0b 00 00 00 07 01H	04 H	04 H	00 H	0A H	00 H	14 H

2.5 Preset Single Registers(Func06–06H)

Writes the binary data of single Holding Registers (4X reference) in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Register Address		Preset Data(Data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Register Address		Preset Data(Data)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to write “10(A H)” at Holding Register 400001(0000 H) of Slave from the Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		Preset Data(Data)	
		High	Low	High	Low
00 0c 00 00 00 06 01H	06 H	00 H	00 H	00 H	0A H

- Response(Slave)

MBAP Header	Function (Command)	Starting Address		Preset Data(Data)	
		High	Low	High	Low
00 0c 00 00 00 07 01H	06 H	00 H	00 H	00 H	0A H

2.6 Preset Multiple Registers(Func16–10H)

Writes the binary data of Holding Registers (4X reference) continuously in the Slave device.

(1) Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Register (Number of register)		Byte Count (Number of data byte)	Data		Data	
		High	Low	High	Low		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte	1Byte

(2) Response(Slave)

MBAP Header	Function (Command)	Starting Address		No. of Register(Number of register)	
		High	Low	High	Low
7Byte	1Byte	1Byte	1Byte	1Byte	1Byte

The below example is to write all “10(A H)” at Holding Register 400001(0000 H) to 400002(0001 H) of the Slave from the Master.

- Query(Master)

MBAP Header	Function (Command)	Starting Address		No. of Register (Number of register)		Byte Count (Number of data byte)	Data		Data	
		High	Low	High	Low		High	Low	High	Low
00 0d 00 00 00 0b 01H	10 H	00 H	00 H	00 H	02 H	04 H	00 H	0A H	00 H	0A H

- Response(Slave)

MBAP Header	Function (Command)	Starting Address		No. of Register(Number of register)	
		High	Low	High	Low
00 0d 00 00 00 06 01H	10 H	00 H	00 H	00 H	02 H

Except downloading the pre-designated min/max parameter accoriding to input specification or default value from PC loader program, it is recommended to use signle register write (Single Register Write) than multi register write (Multi Regiter Write) to connect external device such as PLC, graphic panel, etc.

2.7 Exception process (Exception Response-Error Code)

If communication error occurs, it sends response command and transmits the applicable Exception Code after setting(1) the highest-level bit of received commend (Function).

MBAP Header	Function (Command) +80 H	Exception Code
7Byte	1Byte	1Byte

- ILLEGAL FUNCTION(Exception Code: 01 H): Command is not supported.
- ILLEGAL DATA ADDRESS(Exception Code: 02 H): Starting address of the queried data is inconsistent with transmittable data address.
- ILLRGAL DATA VALUE(Exception Code: 03 H): The number of the queried data is inconsistent with the number of transmittable data.
- SLAVE DEVICE FAILURE(Exception Code: 04 H): Not properly completes the queried command.

The below example is to read the output status (ON: 1, OFF: 0) of non-existing coil 001001(03E8 H) on the Slave from the Master.

- Query (Master)

MBAP Header	Function (Command)	Starting Address		No. of Points(Number of data)	
		High	Low	High	Low
00 0d 00 00 00 06 01H	01 H	03 H	E8 H	00 H	01 H

- Response (Slave)

MBAP Header	Function (Command) +80 H	Exception Code
00 0d 00 00 00 03 01H	81 H	02 H

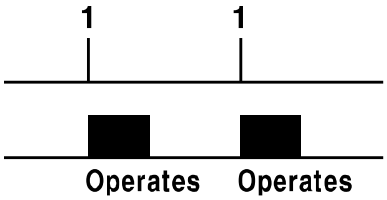
3 Modbus Mapping Table

3.1 Read Coil Status(Func 01) / Force Single Coil(Func 05)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
000001 (0000)	01/05	R/W	RUN/STOP	Start recording/Stop recording	0:STOP, 1:RUN	-	STOP	
000002 (0001)	01/05	R/W	Feed	Manual feed	0:OFF, 1:Feed	-	OFF	Operation is Pulse form.
000003 (0002)	01/05	R/W	List Out	Parameter set information output	0:OFF, 1:List Out	-	OFF	Operation is Pulse form.
000004 (0003)	01/05	R/W	Digital Memo	Digital memo output	0:OFF, 1:Digital Memo	-	OFF	Operation is Pulse form.
000005 to 000050	01/05	R/W	Reserved					

Note

In case of Feed, List Out, Digital Memo, whenever "1" is input, it operates once.



3.2 Read Discrete Input Status(Func 02)

No(Address)	Func	R/W	Parameter	Description		Set range	Unit	Default	Note
100001 (0000)	02	R	P.END	P.END(No recording paper alarm) lamp		0:OFF, 1:ON	-	-	
100002 (0001)	02	R	ALARM	ALARM output lamp		0:OFF, 1:ON	-	-	Marks ON when even 1 alarm turns ON.
100003 (0002)	02	R	ALARM -1	SLOT 7	S7AO-1 output lamp	0:OFF, 1:ON	-	-	Alarm 1
100004 (0003)	02	R	ALARM -2		S7AO-2 output lamp	0:OFF, 1:ON	-	-	Alarm 2
100005 (0004)	02	R	ALARM -3		S7AO-3 output lamp	0:OFF, 1:ON	-	-	Alarm 3
100006 (0005)	02	R	ALARM -4		S7AO-4 output lamp	0:OFF, 1:ON	-	-	Alarm 4
100007 (0006)	02	R	ALARM -5		S7AO-5 output lamp	0:OFF, 1:ON	-	-	Alarm 5
100008 (0007)	02	R	ALARM -6		S7AO-6 output lamp	0:OFF, 1:ON	-	-	Alarm 6
100009 (0008)	02	R	ALARM -7	SLOT 8	S8AO-1 output lamp	0:OFF, 1:ON	-	-	Alarm 7
100010 (0009)	02	R	ALARM -8		S8AO-2 output lamp	0:OFF, 1:ON	-	-	Alarm 8
100011 (000A)	02	R	ALARM -9		S8AO-3 output lamp	0:OFF, 1:ON	-	-	Alarm 9
100012 (000B)	02	R	ALARM -10		S8AO-4 output lamp	0:OFF, 1:ON	-	-	Alarm 10
100013 (000C)	02	R	ALARM -11		S8AO-5 output lamp	0:OFF, 1:ON	-	-	Alarm 11
100014 (000D)	02	R	ALARM -12		S8AO-6 output lamp	0:OFF, 1:ON	-	-	Alarm 12
100015 (000E)	02	R	ALARM -13	SLOT 9	S9AO-1 output lamp	0:OFF, 1:ON	-	-	Alarm 13
100016 (000F)	02	R	ALARM -14		S9AO-2 output lamp	0:OFF, 1:ON	-	-	Alarm 14
100017 (0010)	02	R	ALARM -15		S9AO-3 output lamp	0:OFF, 1:ON	-	-	Alarm 15
100018 (0011)	02	R	ALARM -16		S9AO-4 output lamp	0:OFF, 1:ON	-	-	Alarm 16
100019 (0012)	02	R	ALARM -17		S9AO-5 output lamp	0:OFF, 1:ON	-	-	Alarm 17
100020 (0013)	02	R	ALARM -18		S9AO-6 output lamp	0:OFF, 1:ON	-	-	Alarm 18
100021 (0014)	02	R	ALARM -19	SLOT 10	S10AO-1 output lamp	0:OFF, 1:ON	-	-	Alarm 19
100022 (0015)	02	R	ALARM -20		S10AO-2 output lamp	0:OFF, 1:ON	-	-	Alarm 20
100023 (0016)	02	R	ALARM -21		S10AO-3 output lamp	0:OFF, 1:ON	-	-	Alarm 21
100024 (0017)	02	R	ALARM -22		S10AO-4 output lamp	0:OFF, 1:ON	-	-	Alarm 22
100025 (0018)	02	R	ALARM -23		S10AO-5 output lamp	0:OFF, 1:ON	-	-	Alarm 23
100026 (0019)	02	R	ALARM -24		S10AO-6 output lamp	0:OFF, 1:ON	-	-	Alarm 24
100027 (001A)	02	R	DI	DI input lamp		0:OFF, 1:ON	-	-	Marks ON when even 1 digital input turns ON.
100028 (001B)	02	R	DI-1	SLOT 7	S7DI-1 input	0:OFF, 1:ON	Varies input value from DI status. 1. In case of Level: When DI input is Short, it is 1. When DI input is Open, it is 0. 2. In case of Edge: When DI input		Digital Input1
100029 (001C)	02	R	DI-2		S7DI-2 input	0:OFF, 1:ON			Digital Input2
100030 (001D)	02	R	DI-3		S7DI-3 input	0:OFF, 1:ON			Digital Input3
100031 (001E)	02	R	DI-4		S7DI-4 input	0:OFF, 1:ON			Digital Input4
100032 (001F)	02	R	DI-5		S7DI-5 input	0:OFF, 1:ON			Digital Input5
100033 (0020)	02	R	DI-6		S7DI-6 input	0:OFF, 1:ON			Digital Input6
100034 (0021)	02	R	DI-7	SLOT 8	S8DI-1 input	0:OFF, 1:ON			Digital Input7
100035 (0022)	02	R	DI-8		S8DI-2 input	0:OFF, 1:ON			Digital Input8
100036 (0023)	02	R	DI-9		S8DI-3 input	0:OFF, 1:ON			Digital Input9
100037 (0024)	02	R	DI-10		S8DI-4 input	0:OFF, 1:ON			Digital Input10
100038 (0025)	02	R	DI-11		S8DI-5 input	0:OFF, 1:ON			Digital Input11
100039 (0026)	02	R	DI-12		S8DI-6 input	0:OFF, 1:ON			Digital Input12

No(Address)	Func	R/W	Parameter	Description		Set range	Unit	Default	Note
100040 (0027)	02	R	DI-13	SLOT 9	S9DI-1 input	0:OFF, 1:ON	turns ON-OFF once, input value is 1. When DI input turns ON-OFF again, turns as 0 alternately with 1 or 0.		Digital Input13
100041 (0028)	02	R	DI-14		S9DI-2 input	0:OFF, 1:ON			Digital Input14
100042 (0029)	02	R	DI-15		S9DI-3 input	0:OFF, 1:ON			Digital Input15
100043 (002A)	02	R	DI-16		S9DI-4 input	0:OFF, 1:ON			Digital Input16
100044 (002B)	02	R	DI-17		S9DI-5 input	0:OFF, 1:ON			Digital Input17
100045 (002C)	02	R	DI-18		S9DI-6 input	0:OFF, 1:ON			Digital Input18
100046 (002D)	02	R	DI-19	SLOT 10	S10DI-1 input	0:OFF, 1:ON			Digital Input19
100047 (002E)	02	R	DI-20		S10DI-2 input	0:OFF, 1:ON			Digital Input20
100048 (002F)	02	R	DI-21		S10DI-3 input	0:OFF, 1:ON			Digital Input21
100049 (0030)	02	R	DI-22		S10DI-4 input	0:OFF, 1:ON			Digital Input22
100050 (0031)	02	R	DI-23		S10DI-5 input	0:OFF, 1:ON			Digital Input23
100051 (0032)	02	R	DI-24		S10DI-6 input	0:OFF, 1:ON			Digital Input24
100052 (0033)	02	R	LOCK		Lock set lamp	0:OFF, 1:ON	-	-	
100053 (0034)	02	R	KRN-UI2 Slot 1	Analog input module installation KRN-UI2	Slot1 installation	0:OFF, 1:ON	-	-	
100054 (0035)	02	R	KRN-UI2 Slot 2		Slot2 installation	0:OFF, 1:ON	-	-	
100055 (0036)	02	R	KRN-UI2 Slot 3		Slot3 installation	0:OFF, 1:ON	-	-	
100056 (0037)	02	R	KRN-UI2 Slot 4		Slot4 installation	0:OFF, 1:ON	-	-	
100057 (0038)	02	R	KRN-UI2 Slot 5		Slot5 installation	0:OFF, 1:ON	-	-	
100058 (0039)	02	R	KRN-UI2 Slot 6		Slot6 installation	0:OFF, 1:ON	-	-	
100059 (003A)	02	R	KRN-DI6 Slot7	Digital input module installation KRN-DI6	Slot7 installation	0:OFF, 1:ON	-	-	
100060 (003B)	02	R	KRN-DI6 Slot8		Slot8 installation	0:OFF, 1:ON	-	-	
100061 (003C)	02	R	KRN-DI6 Slot9		Slot9 installation	0:OFF, 1:ON	-	-	
100062 (003D)	02	R	KRN-DI6 Slot10		Slot10 installation	0:OFF, 1:ON	-	-	
100063 (003E)	02	R	KRN-AR4 Slot7	ALARM RELAY TYPE KRN-AR4	Slot7 installation	0:OFF, 1:ON	-	-	
100064 (003F)	02	R	KRN-AR4 Slot8		Slot8 installation	0:OFF, 1:ON	-	-	
100065 (0040)	02	R	KRN-AR4 Slot9		Slot9 installation	0:OFF, 1:ON	-	-	
100066 (0041)	02	R	KRN-AR4 Slot10		Slot10 installation	0:OFF, 1:ON	-	-	
100067 (0042)	02	R	KRN-AT6 Slot7	ALARM TR TYPE KRN-AT6	Slot7 installation	0:OFF, 1:ON	-	-	
100068 (0043)	02	R	KRN-A T6 Slot8		Slot8 installation	0:OFF, 1:ON	-	-	
100069 (0044)	02	R	KRN-A T6 Slot9		Slot9 installation	0:OFF, 1:ON	-	-	
100070 (0045)	02	R	KRN-A T6 Slot10		Slot10 installation	0:OFF, 1:ON	-	-	
100071 to 100100	02	R	Reserved						

3.3 Read Input Register(Func 04)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
300001 to 300100	04	R	Reserved					
300101 (0064)	04	R	Model Number H	Product number H	-	-	-	"ERP model register number"
300102 (0065)	04	R	Model Number L	Product number L	-	-	-	
300103 (0066)	04	R	H/W Version	Hardware version	-	-	-	
300104 (0067)	04	R	S/W Version	Software version	-	-	-	
300105 (0068)	04	R	Model Name1	Model name 1	"KR"	-		
300106 (0069)	04	R	Model Name2	Model name 2	"N1"	-		
300107 (006A)	04	R	Model Name3	Model name 3	"00"	-		
300108 (006B)	04	R	Model Name4	Model name 4	"-X"	-		X: Marks by model
300109 (006C)	04	R	Model Name5	Model name 5	"XX"	-		X: Marks by model
300110 (006D)	04	R	Model Name6	Model name 6	"X-"	-		X: Marks by model
300111 (006E)	04	R	Model Name7	Model name 7	"X-"	-		
300112 (006F)	04	R	Model Name8	Model name 8	"0S"	-		
300113 (0070)	04	R	Model Name9	Model name 9	" "	-		
300114 (0071)	04	R	Model Name10	Model name 10	" "	-		
300115 (0072)	04	R	Reserved	Reserved	-	-	-	
300116 (0073)	04	R	Reserved	Reserved	-	-	-	
300117 (0074)	04	R	Reserved	Reserved	-	-	-	
300118 (0075)	04	R	Coil status Start Address	Coil status start address	-	-	0000	
300119 (0076)	04	R	Coil status Quantity	Coil status quantity	-	-	0	Select set or not by each item※1
300120 (0077)	04	R	Input status Start Address	Input status start address	-	-	0000	
300121 (0078)	04	R	Input status Quantity	Input status quantity	-	-	0	Select set or not by each item ※1
300122 (0079)	04	R	Holding Register Start Address	Holding register start address	-	-	0000	
300123 (007A)	04	R	Holding Register Quantity	Holding register quantity	-	-	0	Select set or not by each item ※1
300124 (007B)	04	R	Input Register Start Address	Input register start address	-	-	0000	
300125 (007C)	04	R	Input Register Quantity	Input register quantity	-	-	0	Select set or not by each item ※1
300127 to 300200	04	R	Reserved					
300201 (00C8)	04	R	Year	Year	00 to 99	-	-	00: 2000 year, 99: 2099 year
300202 (00C9)	04	R	Month	Month	00 to 12	-	-	
300203 (00CA)	04	R	Day	Day	00 to 31	-	-	
300204 (00CB)	04	R	Hour	Hour	00 to 23	-	-	
300205 (00CC)	04	R	Minute	Minute	00 to 59	-	-	
300206 (00CD)	04	R	Second	Second	00 to 59	-	-	
300207 (00CE) 300208 (00CF)	04	R	CH1 PV	S1AI-1(CH1) PV(display value)		-	-	※2
300209 (00D0)	04	R	CH1 Unit	S1AI-1(CH1) display Unit	Refer to Unit table※3	-	℃	
300210 (00D1)	04	R	CH1 Range Point	S1AI-1(CH1) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300211 (00D2) 300212 (00D3)	04	R	CH2 PV	S1AI-2(CH2) PV(display value)	-	-	-	※2
300213 (00D4)	04	R	CH2 Unit	S1AI-2(CH2) display unit	(300209) Refer to address.	-	℃	
300214 (00D5)	04	R	CH2 Range Point	S1AI-2(CH2) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300215 (00D6)	04	R	CH3 PV	S2AI-1(CH3) PV(display value)	-	-	-	※2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
300216 (00D7)								
300217 (00D8)	04	R	CH3 Unit	S2AI-1(CH3) display unit	(300209) Refer to address.	-	℃	
300218 (00D9)	04	R	CH3 Range Point	S2AI-1(CH3) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300219 (00DA) 300220 (00DB)	04	R	CH4 PV	S2AI-2(CH4) PV(display value)	-	-	-	※2
300221 (00DC)	04	R	CH4 Unit	S2AI-2(CH4) display unit	(300209) Refer to address.	-	℃	
300222 (00DD)	04	R	CH4 Range Point	S2AI-2(CH4) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300223 (00DE) 300224 (00DF)	04	R	CH5 PV	S3AI-1(CH5) PV(display value)	-	-	-	※2
300225 (00E0)	04	R	CH5 Unit	S3AI-1(CH5) display unit	(300209) Refer to address.	-	℃	
300226 (00E1)	04	R	CH5 Range Point	S3AI-1(CH5) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300227 (00E2) 300228 (00E3)	04	R	CH6 PV	S3AI-2(CH6) PV(display value)	-	-	-	※2
300229 (00E4)	04	R	CH6 Unit	S3AI-2(CH6) display unit	(300209) Refer to address.	-	℃	
300230 (00E5)	04	R	CH6 Range Point	S3AI-2(CH6) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300231 (00E6) 300232 (00E7)	04	R	CH7 PV	S4AI-1(CH7) PV(display value)	-	-	-	※2
300233 (00E8)	04	R	CH7 Unit	S4AI-1(CH7) display unit	(300209) Refer to address.	-	℃	
300234 (00E9)	04	R	CH7 Range Point	S4AI-1(CH7) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300235 (00EA) 300236 (00EB)	04	R	CH8 PV	S4AI-2(CH8) PV(display value)	-	-	-	※2
300237 (00EC)	04	R	CH8 Unit	S4AI-2(CH8) display unit	(300209) Refer to address.	-	℃	
300238 (00ED)	04	R	CH8 Range Point	S4AI-2(CH8) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300239 (00EE) 300240 (00EF)	04	R	CH9 PV	S5AI-1(CH9) PV(display value)	-	-	-	※2
300241 (00F0)	04	R	CH9 Unit	S5AI-1(CH9) display unit	(300209) Refer to address.	-	℃	
300242 (00F1)	04	R	CH9 Range Point	S5AI-1(CH9) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300243 (00F2) 300244 (00F3)	04	R	CH10 PV	S5AI-2(CH10) PV(display value)	-	-	-	※2
300245 (00F4)	04	R	CH10 Unit	S5AI-2(CH10) display unit	(300209) Refer to address.	-	℃	
300246 (00F5)	04	R	CH10 Range Point	S5AI-2(CH10) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300247 (00F6) 300248 (00F7)	04	R	CH11 Unit	S6AI-1(CH11) PV(display value)	-	–	–	※2
300249 (00F8)	04	R	CH11 Unit	S6AI-1(CH11) display unit	(300209) Refer to address.	-	℃	
300250 (00F9)	04	R	CH11 Range Point	S6AI-1(CH11) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300251 (00FA) 300252 (00FB)	04	R	CH12 Unit	S6AI-2(CH12) PV(display value)	-	-	-	※2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
300253 (00FC)	04	R	CH12 Unit	S6AI-2(CH12) display unit	(300209) Refer to address.	-	℃	
300254 (00FD)	04	R	CH12 Range Point	S6AI-2(CH12) range point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	0.0	Set decimal point of PV
300255 (00FE) 300256 (00FF) 300257 (0100)	04	R	CH1 Tag Name	S1AI-1(CH1) tag name		-	"CH-1"	
300258 (0101) 300259 (0102) 300260 (0103)	04	R	CH2 Tag Name	S1AI-2(CH2) tag name		-	"CH-2"	
300261 (0104) 300262 (0105) 300263 (0106)	04	R	CH3 Tag Name	S2AI-1(CH3) tag name		-	"CH-3"	
300264 (0107) 300265 (0108) 300266 (0109)	04	R	CH4 Tag Name	S2AI-2(CH4) tag name		-	"CH-4"	
300267 (010A) 300268 (010B) 300269 (010C)	04	R	CH5 Tag Name	S3AI-1(CH5) tag name		-	"CH-5"	
300270 (010D) 300271 (010E) 300272 (010F)	04	R	CH6 Tag Name	S3AI-2(CH6) tag name		-	"CH-6"	
300273 (0110) 300274 (0111) 300275 (0112)	04	R	CH7 Tag Name	S4AI-1(CH7) tag name		-	"CH-7"	
300276 (0113) 300277 (0114) 300278 (0115)	04	R	CH8 Tag Name	S4AI-2(CH8) tag name		-	"CH-8"	
300279 (0116) 300280 (0117) 300281 (0118)	04	R	CH9 Tag Name	S5AI-1(CH9) tag name		-	"CH-9"	
300282 (0119) 300283 (011A) 300284 (011B)	04	R	CH10 Tag Name	S5AI-2(CH10) tag name		-	"CH-10"	
300285 (011C) 300286 (011D) 300287 (011E)	04	R	CH11 Tag Name	S6AI-1(CH11) tag name		-	"CH-11"	
300288 (011F) 300289 (0120) 300290 (0121)	04	R	CH12 Tag Name	S6AI-2(CH12) tag name		-	"CH-12"	
300291 (0122)	04	R	Slot7 Insert	Option Slot7 module installation	0:None, 1:KRN-DI6, 2:KRN-AR4, 3:KRN-AT6, 4: KRN-24V3	-	-	
300292 (0123)	04	R	Slot8 Insert	Option Slot8 module installation		-	-	
300293 (0124)	04	R	Slot9 Insert	Option Slot9 module installation		-	-	
300294 (0125)	04	R	Slot10 Insert	Option Slot10 module installation		-	-	
300295 to 300300	04	R	Reserved					

※1. Set the set value of 300119 / 300121 / 300123 / 300125 address by each developed item.
(If there are lots of details model in same series, set value is varied by details model and it is difficult to set from device. Therefore, it is fixed as '0'.)

※2. Returned value for abnormal value is as below.

- Higher value than measurement range of the sensor or range: -210000000(HHHH)
- Lower value than measurement range of the sensor or range: -220000000(LLLL)
- Setting as unknown sensor type: -230000000(ERR)
- Non-installed module for the channel: -240000000(NONE)
- Higher than input specification: -250000000(BURN)

- Lower than input specification or broken temperature sensor such as thermocouple, RTD: -260000000(BURN)
- PV value except above exceptional values should be set decimal point referring to “Range Point”. In case “Range Point” value “n” is 1 to 4 and it displays as PV/10^n.

※3. Display/Temp Unit(Display unit/Temperature unit)

No.	Unit	No.	Unit	No.	Unit	No	Unit	No	Unit
1	°C	17	%	32	V	48	mA	64	User0
2	°F	18	Wt%	33	mV	49	A	65	User1
3	°K	19	mass%	34	μV	50	kg/cm^2	66	User2
4	$Kcal/m^3$	20	Vol%	35	kV	51	Pa	67	User3
5	Kcal	21	ppm	36	Ω	52	kPa	68	User4
6	cal	22	ppb	37	mΩ	53	MPa	69	User5
7	j	23	mol	38	μΩ	54	N/m^2	70	User6
8	Btu	24	Blank	39	s	55	N/mm^2	71	User7
9	l	25	lx	40	μs	56	inH_2O	72	User8
10	ml	26	cd	41	VA	57	mmH_2O	73	User9
11	t	27	lm	42	W	58	bar		
12	gal	28	cd/m^2	43	kW	59	Torr		
13	lb	29	rpm	44	MW	60	mmHg		
14	oz	30	Hz	45	Var	61	mmAq		
15	barrel	31	m^2/s	46	kVar	62	psi		
16	-	32	cp	47	MVar	63	Blank		

3.4 Read Holding Register(Func 03) / Preset Single Register(Func 06) / Preset Multiple Registers(Func 16)

3.4.1 INPUT SETUP(Input setting)

3.4.1.1 CH1-S1UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400001 (0000)	03/06/16	R/W	CH1 Input Set Copy	CH1 copy input parameter	Refer to channel table.※4	-	None	
400002 (0001)	03/06/16	R/W	CH1 Pen Record	CH1 display and record measuring value	0:OFF, 1:ON	-	ON	
400003 (0002)	03/06/16	R/W	CH1 Pen Color	CH1 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400004 (0003)	03/06/16	R/W	CH1 Record Zone	CH1 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400005 (0004) 400006 (0005) 400007 (0006)	03/06/16	R/W	CH1 Tag Name	CH1 channel name	1 to 6 characters	-	"CH-□□"	
400008 (0007)	03/06/16	R/W	CH1 Input Type	CH1 input specification	Refer to input type table.※5	-	TC-K	
400009 (0008)	03/06/16	R/W	CH1 Range/Scale Point	CH1 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400010 (0009)	03/06/16	R/W	CH1 Temp/Display Unit	CH1 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400011 (000A)	03/06/16	R/W	CH1 Low Range/Low Graph Scale※7	CH1 lower limit input value/CH1 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. □6
400012 (000B)	03/06/16	R/W	CH1 High Range/High Graph Scale※7	CH1 upper limit input value/CH1 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400013 (000C) 400014 (000D)	03/06/16	R/W	CH1 Low Scale	CH1 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH1 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9.
400015 (000E) 400016 (000F)	03/06/16	R/W	CH1 High Scale	CH1 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400017 (0010)	03/06/16	R/W	CH1 Special Function	CH1 special function	TC/RTD input:0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400018 (0011)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400019 (0012)	03/06/16	R/W	CH1 Ref Channel	CH1 reference channel	Refer to channel table.※4	-	None	
400020 (0013)	03/06/16	R/W	CH1 Input Bias	CH1 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400021 (0014)	03/06/16	R/W	CH1 Span	CH1 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as 1.000.
400022 (0015)	03/06/16	R/W	CH1 Record Method	CH1 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400023 (0016)	03/06/16	R/W	CH1 Filter Type	CH1 input digital filter	0:None, 1:Moving, Average	-	None	
400024 (0017)	03/06/16	R/W	CH1 Filter	CH1 the number of digital filter	1 to 128	Number	1	
400025 (0018)	03/06/16	R/W	CH1 Burnout Action	CH1 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400026 to 400050	03/06/16	R/W	Reserved					

※4. Channel reference table

Set value	Channel	Set value	Channel
0	None	7	CH7
1	CH1	8	CH8
2	CH2	9	CH9
3	CH3	10	CH10
4	CH4	11	CH11
5	CH5	12	CH12
6	CH6		

※5. Input type table set value

Set value	Input type	Set value	Input type
0	TC-B	14	PT100
1	TC-C	15	DPT100
2	TC-E	16	DPT50
3	TC-G	17	CU100
4	TC-J	18	CU50
5	TC-K	19	±60mV
6	TC-L	20	±200mV
7	TC-L(Russia)	21	±2V
8	TC-N	22	1to5V
9	TC-P	23	±5V
10	TC-R	24	-1to10V
11	TC-S	25	0to20mA
12	TC-T	26	4to20mA
13	TC-U		

※6. Range decimal point set table

In case of High/Low Range, each type has fixed decimal point regardless of "Scale Point".

You should multiply 10^n which n is the number of decimal point and input this.

Set value (Number of decimal point)	Input type
1	TC/RTD
2	±60mV
1	±200mV
3	±2V
3	1to5V
3	±5V
2	-1to10V
2	0 to 20mA, 4 to 20mA

※7. In case of analog input, you can set Low Range, High Range.

In case of temperature sensor (thermocouple, RTD), you can set Low Graph Scale, High Graph Scale.

Ex.

In case of TC/RTD, fixed 1 decimal point: If 1310℃ is set, input 13100.
In case of ±60mV, fixed 2 decimal points: If 30.5mV is set, input 3050.

3.4.1.2 CH2-S1UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400051 (0032)	03/06/16	R/W	CH2 Input Set Copy	CH2 copy input parameter	Refer to channel table.※4	-	None	
400052 (0033)	03/06/16	R/W	CH2 Pen Record	CH2 display and record measuring value	0:OFF, 1:ON	-	ON	
400053 (0034)	03/06/16	R/W	CH2 Pen Color	CH2 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400054 (0035)	03/06/16	R/W	CH2 Record Zone	CH2 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400055 (0036) 400056 (0037) 400057 (0038)	03/06/16	R/W	CH2 Tag Name	CH2 channel name	1 to 6 characters	-	"CH-□□"	
400058 (0039)	03/06/16	R/W	CH2 Input Type	CH2 input specification	Refer to input type table.※5	-	TC-K	
400059 (003A)	03/06/16	R/W	CH2 Range/Scale Point	CH2 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400060 (003B)	03/06/16	R/W	CH2 Temp/Display Unit	CH2 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:□, 1:□, 2:˚K -Analog type: Supports all.
400061 (003C)	03/06/16	R/W	CH2 Low Range/Low Graph Scale※7	CH2 lower limit input value/CH2 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400062 (003D)	03/06/16	R/W	CH2 High Range/High Graph Scale※7	CH2 upper limit input value/CH2 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400063 (003E) 400064 (003F)	03/06/16	R/W	CH2 Low Scale	CH2 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH2 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400065 (0040) 400066 (0041)	03/06/16	R/W	CH2 High Scale	CH2 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400067 (0042)	03/06/16	R/W	CH2 Special Function	CH2 special function	TC/RTD input:0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400068 (0043)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400069 (0044)	03/06/16	R/W	CH2 Ref Channel	CH2 reference channel	Refer to channel table.※4	-	None	
400070 (0045)	03/06/16	R/W	CH2 Input Bias	CH2 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400071 (0046)	03/06/16	R/W	CH2 Span	CH2 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400072 (0047)	03/06/16	R/W	CH2 Record Method	CH2 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400073 (0048)	03/06/16	R/W	CH2 Filter Type	CH2 input digital filter	0:None, 1:Moving Average	-	None	
400074 (0049)	03/06/16	R/W	CH2 Filter	CH2 the number of digital filter	1 to 128	Number	1	
400075 (004A)	03/06/16	R/W	CH2 Burnout Action	CH2 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400076 to 400100	03/06/16	R/W	Reserved					

3.4.1.3 CH3-S2UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400101(0064)	03/06/16	R/W	CH3 Input Set Copy	CH3 copy input parameter	Refer to channel table.※4	-	None	
400102(0065)	03/06/16	R/W	CH3 Pen Record	CH3 display and record measuring value	0:OFF, 1:ON	-	ON	
400103(0066)	03/06/16	R/W	CH3 Pen Color	CH3 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400104(0067)	03/06/16	R/W	CH3 Record Zone	CH3 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400105(0068) 400106(0069) 400107(006A)	03/06/16	R/W	CH3 Tag Name	CH3 channel name	1 to 6 characters	-	"CH-□□"	
400108(006B)	03/06/16	R/W	CH3 Input Type	CH3 input specification	Refer to input type table.※5	-	TC-K	
400109(006C)	03/06/16	R/W	CH3 Range/Scale Point	CH3 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400110(006D)	03/06/16	R/W	CH3 Temp/Display Unit	CH3 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400111(006E)	03/06/16	R/W	CH3 Low Range/Low Graph Scale※7	CH3 lower limit input value/CH3 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400112(006F)	03/06/16	R/W	CH3 High Range/High Graph Scale※7	CH3 upper limit input value/CH3 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400113(0070) 400114(0071)	03/06/16	R/W	CH3 Low Scale	CH3 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH3 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400115(0072) 400116(0073)	03/06/16	R/W	CH3 High Scale	CH3 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400117(0074)	03/06/16	R/W	CH3 Special Function	CH3 special function	TC/RTD input:0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400118(0075)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400119(0076)	03/06/16	R/W	CH3 Ref Channel	CH3 reference channel	Refer to channel table.※4	-	None	
400120(0077)	03/06/16	R/W	CH3 Input Bias	CH3 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400121(0078)	03/06/16	R/W	CH3 Span	CH3 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400122(0079)	03/06/16	R/W	CH3 Record Method	CH3 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400123(007A)	03/06/16	R/W	CH3 Filter Type	CH3 input digital filter	0:None, 1:Moving Average	-	None	
400124(007B)	03/06/16	R/W	CH3 Filter	CH3 the number of digital filter	1 to 128	Numb er	1	
400125(007C)	03/06/16	R/W	CH3 Burnout Action	CH3 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400126 to 400150	03/06/16	R/W	Reserved					

3.4.1.4 CH4-S2UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400151 (0096)	03/06/16	R/W	CH4 Input Set Copy	CH4 copy input parameter	Refer to channel table.※4	-	None	
400152 (0097)	03/06/16	R/W	CH4 Pen Record	CH4 display and record measuring value	0:OFF, 1:ON	-	ON	
400153 (0098)	03/06/16	R/W	CH4 Pen Color	CH4 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400154 (0099)	03/06/16	R/W	CH4 Record Zone	CH4 record zone	0:None, Zone1 to Zone n	-	Zone(1to N)	
400155 (009A) 400156 (009B) 400157 (009C)	03/06/16	R/W	CH4 Tag Name	CH4 channel name	1 to 6 characters	-	"CH-□□"	
400158 (009D)	03/06/16	R/W	CH4 Input Type	CH4 input specification	Refer to input type table.※5	-	TC-K	
400159 (009E)	03/06/16	R/W	CH4 Range/Scale Point	CH4 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400160 (009F)	03/06/16	R/W	CH4 Temp/Display Unit	CH4 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:℉, 2:K -Analog type: Supports all.
400161 (00A0)	03/06/16	R/W	CH4 Low Range/Low Graph Scale※7	CH4 lower limit input value/CH4 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400162 (00A1)	03/06/16	R/W	CH4 High Range/High Graph Scale※7	CH4 upper limit input value/CH4 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400163 (00A2) 400164 (00A3)	03/06/16	R/W	CH4 Low Scale	CH4 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH4 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400165 (00A4) 400166 (00A5)	03/06/16	R/W	CH4 High Scale	CH4 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400167 (00A6)	03/06/16	R/W	CH4 Special Function	CH4 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400168 (00A7)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400169 (00A8)	03/06/16	R/W	CH4 Ref Channel	CH4 reference channel	Refer to channel table.※4	-	None	
400170 (00A9)	03/06/16	R/W	CH4 Input Bias	CH4 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400171 (00AA)	03/06/16	R/W	CH4 Span	CH4 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400172 (00AB)	03/06/16	R/W	CH4 Record Method	CH4 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400173 (00AC)	03/06/16	R/W	CH4 Filter Type	CH4 input digital filter	0:None, 1:Moving Average	-	None	
400174 (00AD)	03/06/16	R/W	CH4 Filter	CH4 the number of digital filter	1 to 128	Number	1	
400175 (00AE)	03/06/16	R/W	CH4 Burnout Action	CH4 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400176 to 400200	03/06/16	R/W	Reserved					

3.4.1.5 CH5-S3UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400201 (00C8)	03/06/16	R/W	CH5 Input Set Copy	CH5 copy input parameter	Refer to channel table.※4	-	None	
400202 (00C9)	03/06/16	R/W	CH5 Pen Record	CH5 display and record measuring value	0:OFF, 1:ON	-	ON	
400203 (00CA)	03/06/16	R/W	CH5 Pen Color	CH5 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400204 (00CB)	03/06/16	R/W	CH5 Record Zone	CH5 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400205 (00CC) 400206 (00CD) 400207 (00CE)	03/06/16	R/W	CH5 Tag Name	CH5 channel name	1 to 6 characters	-	"CH-□□"	
400208 (00CF)	03/06/16	R/W	CH5 Input Type	CH5 input specification	Refer to input type table.※5	-	TC-K	
400209 (00D0)	03/06/16	R/W	CH5 Range/Scale Point	CH5 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400210 (00D1)	03/06/16	R/W	CH5 Temp/Display Unit	CH5 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400211 (00D2)	03/06/16	R/W	CH5 Low Range/Low Graph Scale※7	CH5 lower limit input value/CH5 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. ※6
400212 (00D3)	03/06/16	R/W	CH5 High Range/High Graph Scale※7	CH5 upper limit input value/CH5 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400213 (00D4) 400214 (00D5)	03/06/16	R/W	CH5 Low Scale	CH5 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH5 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400215 (00D6) 400216 (00D7)	03/06/16	R/W	CH5 High Scale	CH5 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400217 (00D8)	03/06/16	R/W	CH5 Special Function	CH5 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400218 (00D9)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400219 (00DA)	03/06/16	R/W	CH5 Ref Channel	CH5 reference channel	Refer to channel table.※4	-	None	
400220 (00DB)	03/06/16	R/W	CH5 Input Bias	CH5 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400221 (00DC)	03/06/16	R/W	CH5 Span	CH5 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400222 (00DD)	03/06/16	R/W	CH5 Record Method	CH5 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400223 (00DE)	03/06/16	R/W	CH5 Filter Type	CH5 input digital filter	0:None, 1:Moving Average	-	None	
400224 (00DF)	03/06/16	R/W	CH5 Filter	CH5 the number of digital filter	1 to 128	Number	1	
400225 (00E0)	03/06/16	R/W	CH5 Burnout Action	CH5 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400226 to 400250	03/06/16	R/W	Reserved					

3.4.1.6 CH6-S3UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400251 (00FA)	03/06/16	R/W	CH6 Input Set Copy	CH6 copy input parameter	Refer to channel table.※4	-	None	
400252 (00FB)	03/06/16	R/W	CH6 Pen Record	CH6 display and record measuring value	0:OFF, 1:ON	-	ON	
400253 (00FC)	03/06/16	R/W	CH6 Pen Color	CH6 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400254 (00FD)	03/06/16	R/W	CH6 Record Zone	CH6 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400255 (00FE) 400256 (00FF) 400257 (0100)	03/06/16	R/W	CH6 Tag Name	CH6 channel name	1 to 6 characters	-	"CH-□□"	
400258 (0101)	03/06/16	R/W	CH6 Input Type	CH6 input specification	Refer to input type table.※5	-	TC-K	
400259 (0102)	03/06/16	R/W	CH6 Range/Scale Point	CH6 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400260 (0103)	03/06/16	R/W	CH6 Temp/Display Unit	CH6 temperature unit	(300209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400261 (0104)	03/06/16	R/W	CH6 Low Range/Low Graph Scale※7	CH6 lower limit input value/CH6 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. ※6
400262 (0105)	03/06/16	R/W	CH6 High Range/High Graph Scale※7	CH6 upper limit input value/CH6 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400263 (0106) 400264 (0107)	03/06/16	R/W	CH6 Low Scale	CH6 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH6 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400265 (0108) 400266 (0109)	03/06/16	R/W	CH6 High Scale	CH6 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400267 (010A)	03/06/16	R/W	CH6 Special Function	CH6 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400268 (010B)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400269 (010C)	03/06/16	R/W	CH6 Ref Channel	CH6 reference channel	Refer to channel table.※4	-	None	
400270 (010D)	03/06/16	R/W	CH6 Input Bias	CH6 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400271 (010E)	03/06/16	R/W	CH6 Span	CH6 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400272 (010F)	03/06/16	R/W	CH6 Record Method	CH6 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400273 (0110)	03/06/16	R/W	CH6 Filter Type	CH6 input digital filter	0:None, 1:Moving Average	-	None	
400274 (0111)	03/06/16	R/W	CH6 Filter	CH6 the number of digital filter	1 to 128	Number	1	
400275 (0112)	03/06/16	R/W	CH6 Burnout Action	CH6 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400276 to 400300	03/06/16	R/W	Reserved					

3.4.1.7 CH7-S4UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400301 (012C)	03/06/16	R/W	CH7 Input Set Copy	CH7 copy input parameter	Refer to channel table.※4	-	None	
400302 (012D)	03/06/16	R/W	CH7 Pen Record	CH7 display and record measuring value	0:OFF, 1:ON	-	ON	
400303 (012E)	03/06/16	R/W	CH7 Pen Color	CH7 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400304 (012F)	03/06/16	R/W	CH7 Record Zone	CH7 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400305 (0130) 400306 (0131) 400307 (0132)	03/06/16	R/W	CH7 Tag Name	CH7 channel name	1 to 6 characters	-	"CH-□□"	
400308 (0133)	03/06/16	R/W	CH7 Input Type	CH7 input specification	Refer to input type table.※5	-	TC-K	
400309 (0134)	03/06/16	R/W	CH7 Range/Scale Point	CH7 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400310 (0135)	03/06/16	R/W	CH7 Temp/Display Unit	CH7 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400311 (0136)	03/06/16	R/W	CH7 Low Range/Low Graph Scale※7	CH7 lower limit input value/CH7 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400312 (0137)	03/06/16	R/W	CH7 High Range/High Graph Scale※7	CH7 upper limit input value/CH7 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400313 (0138) 400314 (0139)	03/06/16	R/W	CH7 Low Scale	CH7 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH7 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400315 (013A) 400316 (013B)	03/06/16	R/W	CH7 High Scale	CH7 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400317 (013C)	03/06/16	R/W	CH7 Special Function	CH7 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400318 (013D)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400319 (013E)	03/06/16	R/W	CH7 Ref Channel	CH7 reference channel	0:None, 1 to 12 ex)1: S1AI-No.1 Slot 1CH, 3: S2AI-1, 6: S3AI-2	-	None	
400320 (013F)	03/06/16	R/W	CH7 Input Bias	CH7 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400321 (0140)	03/06/16	R/W	CH7 Span	CH7 gradient adjustment	0.100 to 5.000	Times	1.000	If 1000 is set, it

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								is recognized as 1.000.
400322 (0141)	03/06/16	R/W	CH7 Record Method	CH7 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400323 (0142)	03/06/16	R/W	CH7 Filter Type	CH7 input digital filter	0:None, 1:Moving Average	-	None	
400324 (0143)	03/06/16	R/W	CH7 Filter	CH7 the number of digital filter	1 to 128	Number	1	
400325 (0144)	03/06/16	R/W	CH7 Burnout Action	CH7 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400326 to 400350	03/06/16	R/W	Reserved					

3.4.1.8 CH8-S4UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400351 (015E)	03/06/16	R/W	CH8 Input Set Copy	CH8 copy input parameter	Refer to channel table.※4	-	None	
400352 (015F)	03/06/16	R/W	CH8 Pen Record	CH8 display and record measuring value	0:OFF, 1:ON	-	ON	
400353 (0160)	03/06/16	R/W	CH8 Pen Color	CH8 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400354 (0161)	03/06/16	R/W	CH8 Record Zone	CH8 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400355 (0162) 400356 (0163) 400357 (0164)	03/06/16	R/W	CH8 Tag Name	CH8 channel name	1 to 6 characters	-	"CH-□□"	
400358 (0165)	03/06/16	R/W	CH8 Input Type	CH8 input specification	Refer to input type table.※5	-	TC-K	
400359 (0166)	03/06/16	R/W	CH8 Range/Scale Point	CH8 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400360 (0167)	03/06/16	R/W	CH8 Temp/Display Unit	CH8 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400361 (0168)	03/06/16	R/W	CH8 Low Range/Low Graph Scale※7	CH8 lower limit input value/CH8 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. ※6
400362 (0169)	03/06/16	R/W	CH8 High Range/High Graph Scale※7	CH8 upper limit input value/CH8 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400363 (016A) 400364 (016B)	03/06/16	R/W	CH8 Low Scale	CH8 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH8 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400365 (016C) 400366 (016D)	03/06/16	R/W	CH8 High Scale	CH8 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400367 (016E)	03/06/16	R/W	CH8 Special Function	CH8 special function	TC/RTD input:0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400368 (016F)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400369 (0170)	03/06/16	R/W	CH8 Ref Channel	CH8 reference channel	Refer to channel table.※4	-	None	
400370 (0171)	03/06/16	R/W	CH8 Input Bias	CH8 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400371 (0172)	03/06/16	R/W	CH8 Span	CH8 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400372 (0173)	03/06/16	R/W	CH8 Record Method	CH8 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400373 (0174)	03/06/16	R/W	CH8 Filter Type	CH8 input digital filter	0:None, 1:Moving Average	-	None	
400374 (0175)	03/06/16	R/W	CH8 Filter	CH8 the number of digital filter	1 to 128	Number	1	
400375 (0176)	03/06/16	R/W	CH8 Burnout Action	CH8 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400376 to 400400	03/06/16	R/W	Reserved					

3.4.1.9 CH9-S5UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400401 (0190)	03/06/16	R/W	CH9 Input Set Copy	CH9 copy input parameter	Refer to channel table.※4	-	None	
400402 (0191)	03/06/16	R/W	CH9 Pen Record	CH9 display and record measuring value	0:OFF, 1:ON	-	ON	
400403 (0192)	03/06/16	R/W	CH9 Pen Color	CH9 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400404 (0193)	03/06/16	R/W	CH9 Record Zone	CH9 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400405 (0194) 400406 (0195) 400407 (0196)	03/06/16	R/W	CH9 Tag Name	CH9 channel name	1 to 6 characters	-	"CH-□□"	
400408 (0197)	03/06/16	R/W	CH9 Input Type	CH9 input specification	Refer to input type table.※5	-	TC-K	
400409 (0198)	03/06/16	R/W	CH9 Range/Scale Point	CH9 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400410 (0199)	03/06/16	R/W	CH9 Temp/Display Unit	CH9 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400411 (019A)	03/06/16	R/W	CH9 Low Range/Low Graph Scale※7	CH9 lower limit input value/CH9 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400412 (019B)	03/06/16	R/W	CH9 High Range/High Graph Scale※7	CH9 upper limit input value/CH9 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400413 (019C) 400414 (019D)	03/06/16	R/W	CH9 Low Scale	CH9 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH9 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400415 (019E) 400416 (019F)	03/06/16	R/W	CH9 High Scale	CH9 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400417 (01A0)	03/06/16	R/W	CH9 Special Function	CH9 special function	TC/RTD input :0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400418 (01A1)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400419 (01A2)	03/06/16	R/W	CH9 Ref Channel	CH9 reference channel	Refer to channel table.※4	-	None	
400420 (01A3)	03/06/16	R/W	CH9 Input Bias	CH9 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400421 (01A4)	03/06/16	R/W	CH9 Span	CH9 gradient adjustment	0.100 to 5.000	Multipl	1.000	If 1000 is set, it

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
						e		is recognized as 1.000.
400422 (01A5)	03/06/16	R/W	CH9 Record Method	CH9 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400423 (01A6)	03/06/16	R/W	CH9 Filter Type	CH9 input digital filter	0:None, 1:Moving Average	-	None	
400424 (01A7)	03/06/16	R/W	CH9 Filter	CH9 the number of digital filter	1 to 128	Numb er	1	
400425 (01A8)	03/06/16	R/W	CH9 Burnout Action	CH9 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400426 to 400450	03/06/16	R/W	Reserved					

3.4.1.10 CH10-S5UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400451 (01C2)	03/06/16	R/W	CH10 Input Set Copy	CH10 copy input parameter	Refer to channel table.※4	-	None	
400452 (01C3)	03/06/16	R/W	CH10 Pen Record	CH10 display and record measuring value	0:OFF, 1:ON	-	ON	
400453 (01C4)	03/06/16	R/W	CH10 Pen Color	CH10 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400454 (01C5)	03/06/16	R/W	CH10 Record Zone	CH10 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400455 (01C6) 400456 (01C7) 400457 (01C8)	03/06/16	R/W	CH10 Tag Name	CH10 channel name	1 to 6 characters	-	"CH-□□"	
400458 (01C9)	03/06/16	R/W	CH10 Input Type	CH10 input specification	Refer to input type table.※5	-	TC-K	
400459 (01CA)	03/06/16	R/W	CH10 Range/Scale Point	CH10 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400460 (01CB)	03/06/16	R/W	CH10 Temp/Display Unit	CH10 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400461 (01CC)	03/06/16	R/W	CH10 Low Range/Low Graph Scale※7	CH10 lower limit input value /CH10 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. ※6
400462 (01CD)	03/06/16	R/W	CH10 High Range/High Graph Scale※7	CH10 upper limit input value /CH10 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400463 (01CE) 400464 (01CF)	03/06/16	R/W	CH10 Low Scale	CH10 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH10 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400465 (01D0) 400466 (01D1)	03/06/16	R/W	CH10 High Scale	CH10 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400467 (01D2)	03/06/16	R/W	CH10 Special Function	CH10 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400468 (01D3)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400469 (01D4)	03/06/16	R/W	CH10 Ref Channel	CH10 reference channel	Refer to channel table.※4	-	None	
400470 (01D5)	03/06/16	R/W	CH10 Input Bias	CH10 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400471 (01D6)	03/06/16	R/W	CH10 Span	CH10 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400472 (01D7)	03/06/16	R/W	CH10 Record Method	CH10 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400473 (01D8)	03/06/16	R/W	CH10 Filter Type	CH10 input digital filter	0:None, 1:Moving Average	-	None	
400474 (01D9)	03/06/16	R/W	CH10 Filter	CH10 the number of digital filter	1 to 128	Number	1	
400475 (01DA)	03/06/16	R/W	CH10 Burnout Action	CH10 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400476 to 400500	03/06/16	R/W	Reserved					

3.4.1.11 CH11-S6UI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400501 (01F4)	03/06/16	R/W	CH11 Input Set Copy	CH11 copy input parameter	Refer to channel table.※4	-	None	
400502 (01F5)	03/06/16	R/W	CH11 Pen Record	CH11 display and record measuring value	0:OFF, 1:ON	-	ON	
400503 (01F6)	03/06/16	R/W	CH11 Pen Color	CH11 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400504 (01F7)	03/06/16	R/W	CH11 Record Zone	CH11 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400505 (01F8) 400506 (01F9) 400507 (01FA)	03/06/16	R/W	CH11 Tag Name	CH11 channel name	1 to 6 characters	-	"CH-□□"	
400508 (01FB)	03/06/16	R/W	CH11 Input Type	CH11 input specification	Refer to input type table.※5	-	TC-K	
400509 (01FC)	03/06/16	R/W	CH11 Range/Scale Point	CH11 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400510 (01FD)	03/06/16	R/W	CH11 Temp/Display Unit	CH11 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400511 (01FE)	03/06/16	R/W	CH11 Low Range/Low Graph Scale※7	CH11 lower limit input value /CH11 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table. ※6
400512 (01FF)	03/06/16	R/W	CH11 High Range/High Graph Scale※7	CH11 upper limit input value /CH11 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400513 (0200) 400514 (0201)	03/06/16	R/W	CH11 Low Scale	CH11 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH11 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400515 (0202) 400516 (0203)	03/06/16	R/W	CH11 High Scale	CH11 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400517 (0204)	03/06/16	R/W	CH11 Special Function	CH11 special function	TC/RTD input: 0:None, 1:Difference Analog input: 0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400518 (0205)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400519 (0206)	03/06/16	R/W	CH11 Ref Channel	CH11 reference channel	Refer to channel table.※4	-	None	
400520 (0207)	03/06/16	R/W	CH11 Input Bias	CH11 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400521 (0208)	03/06/16	R/W	CH11 Span	CH11 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400522 (0209)	03/06/16	R/W	CH11 Record Method	CH11 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400523 (020A)	03/06/16	R/W	CH11 Filter Type	CH11 input digital filter	0:None, 1:Moving Average	-	None	
400524 (020B)	03/06/16	R/W	CH11 Filter	CH11 the number of digital filter	1 to 128	Number	1	
400525 (020C)	03/06/16	R/W	CH11 Burnout Action	CH11 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400526 to 400550	03/06/16	R/W	Reserved					

3.4.1.12 CH12-S6UI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400551 (0226)	03/06/16	R/W	CH12 Input Set Copy	CH12 copy input parameter	Refer to channel table.※4	-	None	
400552 (0227)	03/06/16	R/W	CH12 Pen Record	CH12 display and record measuring value	0:OFF, 1:ON	-	ON	
400553 (0228)	03/06/16	R/W	CH12 Pen Color	CH12 record color	0:Violet, 1:Red, 2:Gray, 3:Green, 4:Blue, 5:Brown	-	Automatic set(CH1 to CH6) (CH7 to CH12)	Specify color.
400554 (0229)	03/06/16	R/W	CH12 Record Zone	CH12 record zone	0:None, Zone1 to Zone n	-	Zone(1 to N)	
400555 (022A) 400556 (022B) 400557 (022C)	03/06/16	R/W	CH12 Tag Name	CH12 channel name	1 to 6 characters	-	"CH-□□"	
400558 (022D)	03/06/16	R/W	CH12 Input Type	CH12 input specification	Refer to input type table.※5	-	TC-K	
400559 (022E)	03/06/16	R/W	CH12 Range/Scale Point	CH12 decimal point	0:0, 1:0.0, 2:0.00, 3:0.000, 4:0.0000	-	Range which has decimal point	- TC/RTD type: only available 0, 0.0 - Analog type: Supports all. But for Two Unit, available 0:0, 1:0.0, 2:0.00
400560 (022F)	03/06/16	R/W	CH12 Temp/Display Unit	CH12 temperature unit	(30209) Refer to address.	-	□	- TC/RTD type: 0:℃, 1:°F, 2:°K -Analog type: Supports all.
400561 (0230)	03/06/16	R/W	CH12 Low Range/Low Graph Scale※7	CH12 lower limit input value /CH12 lower limit graph scale value	Min. value of sensor input range to upper limit input value/ Upper limit graph scale value - F.S 5%	-	-200	Refer to range decimal point set table.※6
400562 (0231)	03/06/16	R/W	CH12 High Range/High Graph Scale※7	CH12 upper limit input value /CH12 higher limit graph scale value	Lower limit input value/ lower limit graph scale value + F.S 5%) to Max. sensor input range	-	1350.0	
400563 (0232) 400564 (0233)	03/06/16	R/W	CH12 Low Scale	CH12 analog lower limit scale value	-99999 to 99999	Digit	0.0	Applied depending on the number of decimal point of CH12 Range/Scale Point. Ex) When scale pointer value is 0.0, if inputting 9999, it is recognized as 999.9
400565 (0234) 400566 (0235)	03/06/16	R/W	CH12 High Scale	CH12 analog upper limit scale value	-99999 to 99999	Digit	100.0	
400567 (0236)	03/06/16	R/W	CH12 Special Function	CH12 special function	TC/RTD input: 0:None, 1:Difference Analog input:0:Linear, 1:Root, 2:Square, 3:Two Unit	-	None	
400568 (0237)	03/06/16	R/W	Two Unit	Two Unit conversion value	1 to 35	Digit	3	If 100 is set, it is recognized as 1.00.
400569 (0238)	03/06/16	R/W	CH12 Ref Channel	CH12 reference channel	Refer to channel table.※4	-	None	
400570 (0239)	03/06/16	R/W	CH12 Input Bias	CH12 error correction	-9999 to 9999	Digit	0000	Uses correction value which applies scale decimal point.
400571 (023A)	03/06/16	R/W	CH12 Span	CH12 gradient adjustment	0.100 to 5.000	Multiple	1.000	If 1000 is set, it is recognized as

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								1.000.
400572 (023B)	03/06/16	R/W	CH12 Record Method	CH12 Data storage method	0:Instant, 1:Average, 2:Minimum, 3:Maximum	-	Instant	
400573 (023C)	03/06/16	R/W	CH12 Filter Type	CH12 input digital filter	0:None, 1:Moving Average	-	None	
400574 (023D)	03/06/16	R/W	CH12 Filter	CH12 the number of digital filter	1 to 128	Number	1	
400575 (023E)	03/06/16	R/W	CH12 Burnout Action	CH12 display setting for break	0:OFF, 1:UP_SCALE, 2:DOWN_SCALE	-	OFF	
400576 to 400600	03/06/16	R/W	Reserved					

3.4.2 ALARM SETUP(Alarm setting)

3.4.2.1 CH1-S1AI - 1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400601 (0258)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400602 (0259)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400603 (025A)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400604 (025B)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400605 (025C) 400606 (025D)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	Signed short
400607 (025E)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400608 (025F)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400609 (0260)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400610 (0261)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400611 (0262)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400612 (0263)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400613 (0264)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400614 (0265) 400615 (0266)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400616 (0267)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400617 (0268)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400618 (0269)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400619 (026A)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400620 (026B)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400621 (026C)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400622 (026D)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400623 (026E) 400624 (026F)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400625 (0270)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400626 (0271)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400627 (0272)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400628 (0273)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400629 (0274)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400630 (0275)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400631 (0276)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400632 (0277) 400633 (0278)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400634 (0279)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400635 (027A)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400636 (027B)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400637 (027C)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400638 to 400650	03/06/16	R/W	Reserved					

※8. Channel reference table

Set value	Channel	Set value	Channel
0	None	7	CH7
1	CH1	8	CH8
2	CH2	9	CH9
3	CH3	10	CH10
4	CH4	11	CH11
5	CH5	12	CH12
6	CH6		

3.4.2.2 CH2-S1AI- 2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400651 (028A)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400652 (028B)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400653 (028C)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400654 (028D)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400655 (028E) 400656 (028F)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	Signed short
400657 (0290)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400658 (0291)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400659 (0292)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400660 (0293)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400661 (0294)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400662 (0295)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400663 (0296)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400664 (0297) 400665 (0298)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400666 (0299)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400667 (029A)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400668 (029B)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400669 (029C)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400670 (029D)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400671 (029E)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400672 (029F)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400673 (02A0) 400674 (02A1)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400675 (02A2)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400676 (02A3)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400677 (02A4)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400678 (02A5)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400679 (02A6)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400680 (02A7)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table ※8	-	None	
400681 (02A8)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400682 (02A9) 400683 (02AA)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400684 (02AB)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400685 (02AC)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400686 (02AD)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400687 (02AE)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400688 to 400700	03/06/16	R/W	Reserved					

3.4.2.3 CH3-S2AI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400701 (02BC)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400702 (02BD)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400703 (02BE)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400704 (02BF)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400705 (02C0) 400706 (02C1)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400707 (02C2)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400708 (02C3)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400709 (02C4)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400710 (02C5)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400711 (02C6)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400712 (02C7)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400713 (02C8)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400714 (02C9) 400715 (02CA)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400716 (02CB)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400717 (02CC)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400718 (02CD)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400719 (02CE)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400720 (02CF)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400721 (02D0)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400722 (02D1)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400723 (02D2) 400724 (02D3)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400725 (02D4)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400726 (02D5)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400727 (02D6)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400728 (02D7)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400729 (02D8)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400730 (02D9)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400731 (02DA)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400732 (02DB) 400733 (02DC)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400734 (02DD)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400735 (02DE)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400736 (02DF)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400737 (02E0)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400738 to 400750	03/06/16	R/W	Reserved					

3.4.2.4 CH4-S2AI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400751 (02EE)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400752 (02EF)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400753 (02F0)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400754 (02F1)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400755 (02F2) 400756 (02F3)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400757 (02F4)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400758 (02F5)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400759 (02F6)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400760 (02F7)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400761 (02F8)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400762 (02F9)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400763 (02FA)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400764 (02FB) 400765 (02FC)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400766 (02FD)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400767 (02FE)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400768 (02FF)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400769 (0300)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400770 (0301)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400771 (0302)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400772 (0303)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400773 (0304) 400774 (0305)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400775 (0306)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400776 (0307)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400777 (0308)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400778 (0309)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400779 (030A)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400780 (030B)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400781 (030C)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400782 (030D) 400783 (030E)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400784 (030F)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400785 (0310)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400786 (0311)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400787 (0312)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400788 to 400800	03/06/16	R/W	Reserved					

3.4.2.5 CH5-S3AI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400801 (0320)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400802 (0321)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400803 (0322)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400804 (0323)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400805 (0324) 400806 (0325)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400807 (0326)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400808 (0327)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400809 (0328)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400810 (0329)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400811 (032A)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400812 (032B)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400813 (032C)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400814 (032D) 400815 (032E)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400816 (032F)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400817 (0330)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400818 (0331)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400819 (0332)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400820 (0333)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400821 (0334)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400822 (0335)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400823 (0336) 400824 (0337)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400825 (0338)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400826 (0339)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400827 (033A)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400828 (033B)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400829 (033C)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400830 (033D)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400831 (033E)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400832 (033F) 400833 (0340)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400834 (0341)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400835 (0342)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400836 (0343)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400837 (0344)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400838 to 400850	03/06/16	R/W	Reserved					

3.4.2.6 CH6-S3AI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400851 (0352)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400852 (0353)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400853 (0354)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
400854 (0355)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400855 (0356) 400856 (0357)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400857 (0358)	03/06/16	R/W	Alarm1 Hysteresis	Alarm1 hysteresis	001 to 999	Digit	001	
400858 (0359)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400859 (035A)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400860 (035B)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400861 (035C)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400862 (035D)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400863 (035E)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400864 (035F) 400865 (0360)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400866 (0361)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400867 (0362)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400868 (0363)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400869 (0364)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400870 (0365)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400871 (0366)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400872 (0367)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400873 (0368) 400874 (0369)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400875 (036A)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400876 (036B)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400877 (036C)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400878 (036D)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400879 (036E)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400880 (036F)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400881 (0370)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400882 (0371) 400883 (0372)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400884 (0373)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400885 (0374)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400886 (0375)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400887 (0376)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400888 to 400900	03/06/16	R/W	Reserved					

3.4.2.7 CH7-S4AI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400901 (0384)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400902 (0385)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400903 (0386)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH1toCH12
400904 (0387)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400905 (0388) 400906 (0389)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400907 (038A)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400908 (038B)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400909 (038C)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400910 (038D)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400911 (038E)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400912 (038F)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400913 (0390)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400914 (0391) 400915 (0392)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400916 (0393)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400917 (0394)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400918 (0395)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400919 (0396)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400920 (0397)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400921 (0398)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400922 (0399)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400923 (039A) 400924 (039B)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400925 (039C)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400926 (039D)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400927 (039E)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400928 (039F)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400929 (03A0)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400930 (03A1)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400931 (03A2)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400932 (03A3) 400933 (03A4)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400934 (03A5)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400935 (03A6)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400936 (03A7)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400937 (03A8)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400938 to 400950	03/06/16	R/W	Reserved					

3.4.2.8 CH8-S4A-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
400951 (03B6)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
400952 (03B7)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
400953 (03B8)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH1toCH12
400954 (03B9)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400955 (03BA) 400956 (03BB)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
400957 (03BC)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
400958 (03BD)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
400959 (03BE)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
400960 (03BF)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
400961 (03C0)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
400962 (03C1)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
400963 (03C2)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400964 (03C3) 400965 (03C4)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
400966 (03C5)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
400967 (03C6)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
400968 (03C7)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
400969 (03C8)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
400970 (03C9)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400971 (03CA)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
400972 (03CB)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400973 (03CC) 400974 (03CD)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
400975 (03CE)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
400976 (03CF)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
400977 (03D0)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
400978 (03D1)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
400979 (03D2)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
400980 (03D3)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
400981 (03D4)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
400982 (03D5) 400983 (03D6)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
400984 (03D7)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
400985 (03D8)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
400986 (03D9)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
400987 (03DA)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
400988 to 401000	03/06/16	R/W	Reserved					

3.4.2.9 CH9-S5AI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401001 (03E8)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
401002 (03E9)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
401003 (03EA)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH1toCH12
401004 (03EB)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401005 (03EC) 401006 (03ED)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
401007 (03EE)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
401008 (03EF)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
401009 (03F0)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
401010 (03F1)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
401011 (03F2)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
401012 (03F3)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
401013 (03F4)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401014 (03F5) 401015 (03F6)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
401016 (03F7)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
401017 (03F8)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
401018 (03F9)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
401019 (03FA)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
401020 (03FB)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401021 (03FC)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
401022 (03FD)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401023 (03FE) 401024 (03FF)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
401025 (0400)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
401026 (0401)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
401027 (0402)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
401028 (0403)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
401029 (0404)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401030 (0405)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
401031 (0406)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401032 (0407) 401033 (0408)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
401034 (0409)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
401035 (040A)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
401036 (040B)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
401037 (040C)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
401038 to 401050	03/06/16	R/W	Reserved					

3.4.2.10 CH10-S5AI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401051 (041A)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
401052 (041B)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
401053 (041C)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
401054 (041D)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401055 (041E) 401056 (041F)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
401057 (0420)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
401058 (0421)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
401059 (0422)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
401060 (0423)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
401061 (0424)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
401062 (0425)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
401063 (0426)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401064 (0427) 401065 (0428)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
401066 (0429)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
401067 (042A)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
401068 (042B)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
401069 (042C)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
401070 (042D)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401071 (042E)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
401072 (042F)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401073 (0430) 401074 (0431)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
401075 (0432)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
401076 (0433)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
401077 (0434)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
401078 (0435)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
401079 (0436)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401080 (0437)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
401081 (0438)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401082 (0439) 401083 (043A)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
401084 (043B)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
401085 (043C)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
401086 (043D)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
401087 (043E)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
401088 to 401100	03/06/16	R/W	Reserved					

3.4.2.11 CH11-S6AI-1

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401101 (044C)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
401102 (044D)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
401103 (044E)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
401104 (044F)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401105 (0450) 401106 (0451)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
401107 (0452)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
401108 (0453)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
401109 (0454)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
401110 (0455)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
401111 (0456)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
401112 (0457)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
401113 (0458)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401114 (0459) 401115 (045A)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
401116 (045B)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
401117 (045C)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
401118 (045D)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
401119 (045E)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
401120 (045F)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401121 (0460)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
401122 (0461)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401123 (0462) 401124 (0463)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
401125 (0464)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
401126 (0465)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
401127 (0466)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
401128 (0467)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
401129 (0468)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401130 (0469)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
401131 (046A)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401132 (046B) 401133 (046C)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
401134 (046D)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
401135 (046E)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
401136 (046F)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
401137 (0470)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※7	-	None	
401138 to 401150	03/06/16	R/W	Reserved					

3.4.2.12 CH12-S6AI-2

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401151 (047E)	03/06/16	R/W	Alarm Set Copy	Copy alarm parameter	Refer to channel table.※8	-	None	CH-1 to CH-12
401152 (047F)	03/06/16	R/W	Alarm1 Type	Alarm 1 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	PV.Hi	
401153 (0480)	03/06/16	R/W	Alarm1 Ref CH	Alarm 1 reference channel	Refer to channel table.※8	-	None	CH-1 to CH-12
401154 (0481)	03/06/16	R/W	Alarm1 Option	Alarm 1 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401155 (0482) 401156 (0483)	03/06/16	R/W	Alarm1 Value	Alarm 1 set value	F.S. by each channel	Digit	1350.0	
401157 (0484)	03/06/16	R/W	Alarm1 Hysteresis	Alarm 1 hysteresis	001 to 999	Digit	001	
401158 (0485)	03/06/16	R/W	Alarm1 ON Delay	Alarm 1 output ON delay time	0 to 3600	Sec.	0	
401159 (0486)	03/06/16	R/W	Alarm1 OFF Delay	Alarm 1 output OFF delay time	0 to 3600	Sec.	0	
401160 (0487)	03/06/16	R/W	Alarm1 Alarm No	Alarm 1 output alarm number	Refer to channel table.※8	-	None	
401161 (0488)	03/06/16	R/W	Alarm2 Type	Alarm 2 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	None	
401162 (0489)	03/06/16	R/W	Alarm2 Ref Channel	Alarm 2 reference channel	Refer to channel table.※8	-	None	
401163 (048A)	03/06/16	R/W	Alarm2 Option	Alarm 2 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401164 (048B) 401165 (048C)	03/06/16	R/W	Alarm2 Value	Alarm 2 set value	F.S. by each channel	Digit	0	
401166 (048D)	03/06/16	R/W	Alarm2 Hysteresis	Alarm 2 hysteresis	001 to 999	Digit	001	
401167 (048E)	03/06/16	R/W	Alarm2 ON Delay	Alarm 2 output ON delay time	0 to 3600	Sec.	0	
401168 (048F)	03/06/16	R/W	Alarm2 OFF Delay	Alarm 2 output OFF delay time	0 to 3600	Sec.	0	
401169 (0490)	03/06/16	R/W	Alarm2 Alarm No	Alarm 2 output alarm number	Refer to channel table.※8	-	None	
401170 (0491)	03/06/16	R/W	Alarm3 Type	Alarm 3 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401171 (0492)	03/06/16	R/W	Alarm3 Ref Channel	Alarm 3 reference channel	Refer to channel table.※8	-	None	
401172 (0493)	03/06/16	R/W	Alarm3 Option	Alarm 3 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401173 (0494) 401174 (0495)	03/06/16	R/W	Alarm3 Value	Alarm 3 set value	F.S. by each channel	Digit	0	
401175 (0496)	03/06/16	R/W	Alarm3 Hysteresis	Alarm 3 hysteresis	001 to 999	Digit	001	
401176 (0497)	03/06/16	R/W	Alarm3 ON Delay	Alarm 3 output ON delay time	0 to 3600	Sec.	0	
401177 (0498)	03/06/16	R/W	Alarm3 OFF Delay	Alarm 3 output OFF delay time	0 to 3600	Sec.	0	
401178 (0499)	03/06/16	R/W	Alarm3 Alarm No	Alarm 3 output alarm number	Refer to channel table.※8	-	None	
401179 (049A)	03/06/16	R/W	Alarm4 Type	Alarm 4 operation mode	0:OFF, 1:PV.Hi, 2:PV.Lo, 3:DV.Hi, 4:DV.Lo, 5:SBA, 6:P.END	-	OFF	
401180 (049B)	03/06/16	R/W	Alarm4 Ref Channel	Alarm 4 reference channel	Refer to channel table.※8	-	None	
401181 (049C)	03/06/16	R/W	Alarm4 Option	Alarm 4 option	0:None, 1:Latch, 2:StBy, 3:La+St	-	None	
401182 (049D) 401183 (049E)	03/06/16	R/W	Alarm4 Value	Alarm 4 set value	F.S. by each channel	Digit	0	
401184 (049F)	03/06/16	R/W	Alarm4 Hysteresis	Alarm 4 hysteresis	001 to 999	Digit	001	
401185 (04A0)	03/06/16	R/W	Alarm4 ON Delay	Alarm 4 output ON delay time	0 to 3600	Sec.	0	
401186 (04A1)	03/06/16	R/W	Alarm4 OFF Delay	Alarm 4 output OFF delay time	0 to 3600	Sec.	0	
401187 (04A2)	03/06/16	R/W	Alarm4 Alarm No	Alarm 4 output alarm number	Refer to channel table.※8	-	None	
401188 to 401200	03/06/16	R/W	Reserved					

3.4.2.13 S□AL

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401201 (04B0)	03/06/16	R/W	S7-AL1 Status	AL1 output method	0:NO, 1:NC※9	-	NO	
401202 (04B1)	03/06/16	R/W	S7-AL2 Status	AL2 output method	0:NO, 1:NC	-	NO	
401203 (04B2)	03/06/16	R/W	S7-AL3 Status	AL3 output method	0:NO, 1:NC	-	NO	
401204 (04B3)	03/06/16	R/W	S7-AL4 Status	AL4 output method	0:NO, 1:NC	-	NO	
401205 (04B4)	03/06/16	R/W	S7-AL5 Status	AL5 output method	0:NO, 1:NC	-	NO	
401206 (04B5)	03/06/16	R/W	S7-AL6 Status	AL6 output method	0:NO, 1:NC	-	NO	
401207 (04B6)	03/06/16	R/W	S8-AL1 Status	AL1 output method	0:NO, 1:NC	-	NO	
401208 (04B7)	03/06/16	R/W	S8-AL2 Status	AL2 output method	0:NO, 1:NC	-	NO	
401209 (04B8)	03/06/16	R/W	S8-AL3 Status	AL3 output method	0:NO, 1:NC	-	NO	
401210 (04B9)	03/06/16	R/W	S8-AL4 Status	AL4 output method	0:NO, 1:NC	-	NO	
401211 (04BA)	03/06/16	R/W	S8-AL5 Status	AL5 output method	0:NO, 1:NC	-	NO	
401212 (04BB)	03/06/16	R/W	S8-AL6 Status	AL6 output method	0:NO, 1:NC	-	NO	
401213 (04BC)	03/06/16	R/W	S9-AL1 Status	AL1 output method	0:NO, 1:NC	-	NO	
401214 (04BD)	03/06/16	R/W	S9-AL2 Status	AL2 output method	0:NO, 1:NC	-	NO	
401215 (04BE)	03/06/16	R/W	S9-AL3 Status	AL3 output method	0:NO, 1:NC	-	NO	
401216 (04BF)	03/06/16	R/W	S9-AL4 Status	AL4 output method	0:NO, 1:NC	-	NO	
401217 (04C0)	03/06/16	R/W	S9-AL5 Status	AL5 output method	0:NO, 1:NC	-	NO	
401218 (04C1)	03/06/16	R/W	S9-AL6 Status	AL6 output method	0:NO, 1:NC	-	NO	
401219 (04C2)	03/06/16	R/W	S10-AL1 Status	AL1 output method	0:NO, 1:NC	-	NO	
401220 (04C3)	03/06/16	R/W	S10-AL2 Status	AL2 output method	0:NO, 1:NC	-	NO	
401221 (04C4)	03/06/16	R/W	S10-AL3 Status	AL3 output method	0:NO, 1:NC	-	NO	
401222 (04C5)	03/06/16	R/W	S10-AL4 Status	AL4 output method	0:NO, 1:NC	-	NO	
401223 (04C6)	03/06/16	R/W	S10-AL5 Status	AL5 output method	0:NO, 1:NC	-	NO	
401224 (04C7)	03/06/16	R/W	S10-AL6 Status	AL6 output method	0:NO, 1:NC	-	NO	
401225 to 401250	03/06/16	R/W	Reserved					

※9. NO is abbreviation of normally open.
NC is abbreviation of normal closed.

3.4.3 DIGITAL INPUT SETUP(Digital input setting)

3.4.3.1 S7DI

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401251 (04E2)	03/06/16	R/W	DI-1 Type	Select digital input 1	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401252 (04E3)	03/06/16	R/W	DI-1 Reset No	DI-1 reset alarm number	Refer to the table.※10	-	None	
401253 (04E4)	03/06/16	R/W	DI-1 Status	DI-1 operation status	0:Edge, 1:Level	-	Edge	
401254 (04E5)	03/06/16	R/W	DI-2 Type	Select digital input 2	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401255 (04E6)	03/06/16	R/W	DI-2 Reset No	DI-2 reset alarm number	Refer to the table.※10	-	None	
401256 (04E7)	03/06/16	R/W	DI-2 Status	DI-2 operation status	0:Edge, 1:Level	-	Edge	
401257 (04E8)	03/06/16	R/W	DI-3 Type	Select digital input 3	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401258 (04E9)	03/06/16	R/W	DI-3 Reset No	DI-3 reset alarm number	Refer to the table.※10	-	None	
401259 (04EA)	03/06/16	R/W	DI-3 Status	DI-3 operation status	0:Edge, 1:Level	-	Edge	
401260 (04EB)	03/06/16	R/W	DI-4 Type	Select digital input 4	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401261 (04EC)	03/06/16	R/W	DI-4 Reset No	DI-4 reset alarm number	Refer to the table.※10	-	None	
401262 (04ED)	03/06/16	R/W	DI-4 Status	DI-4 operation status	0:Edge, 1:Level	-	Edge	
401263 (04EE)	03/06/16	R/W	DI-5 Type	Select digital input 5	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401264 (04EF)	03/06/16	R/W	DI-5 Reset No	DI-5 reset alarm number	Refer to the table.※10	-	None	
401265 (04F0)	03/06/16	R/W	DI-5 Status	DI-5 operation status	0:Edge, 1:Level	-	Edge	
401266 (04F1)	03/06/16	R/W	DI-6 Type	Select digital input 6	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401267 (04F2)	03/06/16	R/W	DI-6 Reset No	DI-6 reset alarm number	Refer to the table.※10	-	None	
401268 (04F3)	03/06/16	R/W	DI-6 Status	DI-6 operation status	0:Edge, 1:Level	-	Edge	
401269 to 401300	03/06/16	R/W	Reserved					

※10. Alarm output number table

No.	Channel	No.	Channel
0	None	13	S8AO-6
1	All	14	S9AO-1
2	S7AO-1	15	S9AO-2
3	S7AO-2	16	S9AO-3
4	S7AO-3	17	S9AO-4
5	S7AO-4	18	S9AO-5
6	S7AO-5	19	S9AO-6
7	S7AO-6	20	S10AO-1
8	S8AO-1	21	S10AO-2
9	S8AO-2	22	S10AO-3
10	S8AO-3	23	S10AO-4
11	S8AO-4	24	S10AO-5
12	S8AO-5	25	S10AO-6

3.4.3.2 S8DI

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401301 (0514)	03/06/16	R/W	DI-1 Type	Select digital input 1	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401302 (0515)	03/06/16	R/W	DI-1 Reset No	DI-1 reset alarm number	Refer to the table.※10	-	None	
401303 (0516)	03/06/16	R/W	DI-1 Status	DI-1 operation status	0:Edge, 1:Level	-	Edge	
401304 (0517)	03/06/16	R/W	DI-2 Type	Select digital input 2	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401305 (0518)	03/06/16	R/W	DI-2 Reset No	DI-2 reset alarm number	Refer to the table.※10	-	None	
401306 (0519)	03/06/16	R/W	DI-2 Status	DI-2 operation status	0:Edge, 1:Level	-	Edge	
401307 (051A)	03/06/16	R/W	DI-3 Type	Select digital input 3	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401308 (051B)	03/06/16	R/W	DI-3 Reset No	DI-3 reset alarm number	Refer to the table.※10	-	None	
401309 (051C)	03/06/16	R/W	DI-3 Status	DI-3 operation status	0:Edge, 1:Level	-	Edge	
401310 (051D)	03/06/16	R/W	DI-4 Type	Select digital input 4	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401311 (051E)	03/06/16	R/W	DI-4 Reset No	DI-4 reset alarm number	Refer to the table.※10	-	None	
401312 (051F)	03/06/16	R/W	DI-4 Status	DI-4 operation status	0:Edge, 1:Level	-	Edge	
401313 (0520)	03/06/16	R/W	DI-5 Type	Select digital input 5	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401314 (0521)	03/06/16	R/W	DI-5 Reset No	DI-5 reset alarm number	Refer to the table.※10	-	None	
401315 (0522)	03/06/16	R/W	DI-5 Status	DI-5 operation status	0:Edge, 1:Level	-	Edge	
401316 (0523)	03/06/16	R/W	DI-6 Type	Select digital input 6	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401317 (0524)	03/06/16	R/W	DI-6 Reset No	DI-6 reset alarm number	Refer to the table.※10	-	None	
401318 (0525)	03/06/16	R/W	DI-6 Status	DI-6 operation status	0:Edge, 1:Level	-	Edge	
401319 to 401350	03/06/16	R/W	Reserved					

3.4.3.3 S9DI

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401351 (0546)	03/06/16	R/W	DI-1 Type	Select digital input 1	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401352 (0547)	03/06/16	R/W	DI-1 Reset No	DI-1 reset alarm number	Refer to the table.※10	-	None	
401353 (0548)	03/06/16	R/W	DI-1 Status	DI-1 operation status	0:Edge, 1:Level	-	Edge	
401354 (0549)	03/06/16	R/W	DI-2 Type	Select digital input 2	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401355 (054A)	03/06/16	R/W	DI-2 Reset No	DI-2 reset alarm number	Refer to the table.※10	-	None	
401356 (054B)	03/06/16	R/W	DI-2 Status	DI-2 operation status	0:Edge, 1:Level	-	Edge	
401357 (054C)	03/06/16	R/W	DI-3 Type	Select digital input 3	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401358 (054D)	03/06/16	R/W	DI-3 Reset No	DI-3 reset alarm number	Refer to the table.※10	-	None	
401359 (054E)	03/06/16	R/W	DI-3 Status	DI-3 operation status	0:Edge, 1:Level	-	Edge	
401360 (054F)	03/06/16	R/W	DI-4 Type	Select digital input 4	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401361 (0550)	03/06/16	R/W	DI-4 Reset No	DI-4 reset alarm number	Refer to the table.※10	-	None	
401362 (0551)	03/06/16	R/W	DI-4 Status	DI-4 operation status	0:Edge, 1:Level	-	Edge	
401363 (0552)	03/06/16	R/W	DI-5 Type	Select digital input 5	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401364 (0553)	03/06/16	R/W	DI-5 Reset No	DI-5 reset alarm number	Refer to the table.※10	-	None	
401365 (0554)	03/06/16	R/W	DI-5 Status	DI-5 operation status	0:Edge, 1:Level	-	Edge	
401366 (0555)	03/06/16	R/W	DI-6 Type	Select digital input 6	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401367 (0556)	03/06/16	R/W	DI-6 Reset No	DI-6 reset alarm number	Refer to the table.※10	-	None	
401368 (0557)	03/06/16	R/W	DI-6 Status	DI-6 operation status	0:Edge, 1:Level	-	Edge	
401369 to 401400	03/06/16	R/W	Reserved					

3.4.3.4 S10DI

No(Address)	Func	R/W	Parameter Name	Description	Set range	Unit	Default	Note
401401 (0578)	03/06/16	R/W	DI-1 Type	Select digital input 1	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401402 (0579)	03/06/16	R/W	DI-1 Reset No	DI-1 reset alarm number	Refer to the table.※10	-	None	
401403 (057A)	03/06/16	R/W	DI-1 Status	DI-1 operation status	0:Edge, 1:Level	-	Edge	
401404 (057B)	03/06/16	R/W	DI-2 Type	Select digital input 2	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401405 (057C)	03/06/16	R/W	DI-2 Reset No	DI-2 reset alarm number	Refer to the table.※10	-	None	
401406 (057D)	03/06/16	R/W	DI-2 Status	DI-2 operation status	0:Edge, 1:Level	-	Edge	
401407 (057E)	03/06/16	R/W	DI-3 Type	Select digital input 3	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401408 (057F)	03/06/16	R/W	DI-3 Reset No	DI-3 reset alarm number	Refer to the table.※10	-	None	
401409 (0580)	03/06/16	R/W	DI-3 Status	DI-3 operation status	0:Edge, 1:Level	-	Edge	
401410 (0581)	03/06/16	R/W	DI-4 Type	Select digital input 4	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401411 (0582)	03/06/16	R/W	DI-4 Reset No	DI-4 reset alarm number	Refer to the table.※10	-	None	
401412 (0583)	03/06/16	R/W	DI-4 Status	DI-4 operation status	0:Edge, 1:Level	-	Edge	
401413 (0584)	03/06/16	R/W	DI-5 Type	Select digital input 5	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401414 (0585)	03/06/16	R/W	DI-5 Reset No	DI-5 reset alarm number	Refer to the table.※10	-	None	
401415 (0586)	03/06/16	R/W	DI-5 Status	DI-5 operation status	0:Edge, 1:Level	-	Edge	
401416 (0587)	03/06/16	R/W	DI-6 Type	Select digital input 6	0:None, 1:Run, 2:Memo, 3:ListOut, 4:Speed, 5:Rly Reset	-	None	
401417 (0588)	03/06/16	R/W	DI-6 Reset No	DI-6 reset alarm number	Refer to the table.※10	-	None	
401418 (0589)	03/06/16	R/W	DI-6 Status	DI-6 operation status	0:Edge, 1:Level	-	Edge	
401419 to 401450	03/06/16	R/W	Reserved					

3.4.4 COMMUNICATION SETUP(Communication setting)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401501 (05DC)	03	R	Address	Communication address	01 to 127	-	01	
401502 (05DD)	03	R	RS485 Port	Use RS485 communication	0:Disable, 1:Enable	-	Enable	
401503 (05DE)	03	R	Baud Rate	Baud rate	0:2400, 1:4800, 2:9600, 3:19200, 4:38400	bps	9600	Refer to available communication distance by baud rate.
401504 (05DF)	03	R	Parity Bit	Communication parity bit	0:None, 1:Odd, 2:Even	-	None	
401505 (05E0)	03	R	Stop Bit	Communication stop bit	1, 2	bit	2	
401506 (05E1)	03	R	Termination Set	Terminating resistance	0:Disable, 1:Enable	-	Disable	Uses 120Ω
401507 (05E2)	03	R	Response Waiting Time	Communication response wait time	05 to 99	ms	20	
401508 (05E3)	03	R	Protocol	Communication protocol	0:Modbus RTU	-	Modbus RTU	
401509 (05E4)	03	R	RS485 Com Write	RS485 communication write	0:Disable, 1:Enable	-	Enable	
401510 (05E5)	03	R	Ethernet Port	Use Ethernet communication	0:Disable, 1:Enable	-	Disable	
401511 (05E6) 401512 (05E7) 401513 (05E8) 401514 (05E9) 401515 (05EA) 401516 (05EB) 401517 (05EC) 401518 (05ED)	03	R	IP Address	IP address	0.0.0.0 to 255.255.255.255	-	"192.168.1.2"	
401519 (05EE) 401520 (05EF) 401521 (05F0) 401522 (05F1) 401523 (05F2) 401524 (05F3) 401525 (05F4) 401526 (05F5)	03	R	Subnet mask	Subnet Mask	0.0.0.0 to 255.255.255.255	-	"255.255.255.0"	
401527 (05F6) 401528 (05F7) 401529 (05F8) 401530 (05F9) 401531 (05FA) 401532 (05FB) 401533 (05FC) 401534 (05FD)	03	R	Default Gateway	Default Gateway	0.0.0.0 to 255.255.255.255	-	"192.168.1.1"	
401535 (05FE)	03	R	Ethernet Com Write	Ethernet communication write	0:Disable, 1:Enable	-	Enable	
401536 (05FF)	03	R	USB Device Port	Use USB communication	0:Disable, 1:Enable	-	Enable	Device
401537 (0600)	03	R	USB Device Com Write	USB communication write	0:Disable, 1:Enable	-	Enable	Device
401538 to 401550	03	R	Reserved					

※Communication setting is only available to read.

3.4.5 RECORD SETUP(Record setting

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401551 (060E)	03/06/16	R/W	Record Mode	Record mode	0:Graph, 1:Digital	-	Graph	
401552 (060F)	03/06/16	R/W	Digital Print Type	1 line record channel during numeric recording	0:OneCH, 1:TwoCH	-	TwoCH	Enables only in Digital mode
401553 (0610)	03/06/16	R/W	Standard Speed	Standard record speed	0:10, 1:20, 2:40, 3:60, 4:120, 5:240,	mm/h	20	Enables only in Graph mode. In Digital mode, it is exception process. When changing standard record speed, option and alarm record speed is also changed as same value. Option and alarm record speed cannot be lower than standard record speed.
401554 (0611)	03/06/16	R/W	Option Speed	Option record speed	0:10, 1:20, 2:40, 3:60, 4:120, 5:240,	mm/h	20	
401555 (0612)	03/06/16	R/W	Memo Period	Digital memo period	Refer to 8.5.5 Digital Memo Period of KRN100 user manual. (Depending on the number of input channel.) 0:1min 1:5min 2:10min 3:15min 4:30min 5:hour 6:2hour 7:3hour 8:4hour 9:hour 10:16hour 11:24hour	min	Refer to the table of 9-6-1-1-3. (Depending on the number of input channel.)	Enables only in Graph mode. In Digital mode, it is exception process. Depending on the number of printed channel, min. set value is changed.
401556 (0613)	03/06/16	R/W	Divide Zone	Record zone division	None:1 2 to 12	Zone	None	Enables only in Graph mode. In Digital mode, it is exception process.
401557 (0614)	03/06/16	R/W	Standard Period	Standard record period	00m00s to 99m59s Refer to 8.5.7 Standard Period and 8.5.8 Option Period of KRN100 user manual. (Depending on the number of input channel.)	-	20m00s	Enables only in Graph mode. In Digital mode, it is exception process. Enables to set with second unit. For example, to set 10 min. 10 sec., set 610 which is 10min.×60sec.×10sec. Depending on the number of printed channel, there limit to min. set value.
401558 (0615)	03/06/16	R/W	Option Period	Option record period		-	20m00s	
401559 (0616)	03/06/16	R/W	Listing Language	Language for list output	0: English , 1: Korea	-	English	
401560 (0617)	03/06/16	R/W	Alarm Speed	Alarm record speed	0:10, 1:20, 2:40, 3:60, 4:120, 5:240	mm/h	20	Enables only in Graph mode. In Digital mode, it is exception process. When changing standard record speed, option and alarm record speed is also changed as same value. Option and alarm record

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
								speed cannot be lower than standard record speed.
401561 (0618)	03/06/16	R/W	Power On Status	Record status when power ON	0:Hold, 1:Run, 2:Stop	-	Hold	
401562 (0619)	03/06/16	R/W	Run Status	List printing at start recording	0:OFF, 1:ON	-	OFF	
401563 (061A)	03/06/16	R/W	List Out Option	List record option	0:Standard, 1:Option	-	Standard	
401564 (061B)	03/06/16	R/W	Dot line Distance	Dot line for zone division	0:No Print, 1:0.8mm, 2:1.6mm, 3:2.4mm, 4:3.2mm, 5:4.0mm, 6:4.8mm, 7:5.6mm, 8:6.4mm, 9:7.2mm, 10:8.0mm	mm	4.0	
401565 (061C)	03/06/16	R/W	CH Print Distance	Record interval for each channel graph	0:No Print, 1:10mm, 2:20mm, 3:30mm, 4:40mm, 5:50mm, 6:60mm, 7:70mm, 8:80mm, 9:90mm, 10:100mm	mm	20.0	
401566 (061D)	03/06/16	R/W	Start Line Print	Start line when starting record	0:OFF, 1:ON	-	ON	
401567 (061E)	03/06/16	R/W	Range Print Time	Input range record period	0: Disable, 1:1hour, 2:2hour, 3:3hour, 4:4hour, 5:5hour, 6:6hour to 24:24hour	Hour	Disable	
401568 to 401600	03/06/16	R/W	Reserved					

3.4.6 SYSTEM SETUP(System setting)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401601 (0640)	03/06/16	R/W	Device Name1	Device name 1	“KR”	-	"KRN100 Recorder "	16 characters
401602 (0641)			Device Name2	Device name 2	“N1”			
401603 (0642)			Device Name3	Device name 3	“00”			
401604 (0643)			Device Name4	Device name 4	“R”			
401605 (0644)			Device Name5	Device name 5	“ec”			
401606 (0645)			Device Name6	Device name 6	“or”			
401607 (0646)			Device Name7	Device name 7	“de”			
401608 (0647)			Device Name8	Device name 8	“r”			
401609 (0648)	03/06/16	R/W	Date	Year	2000 to 2099	-	Automatic set	
401610 (0649)				Month	01 to 12			
401611 (064A)				Day	01 to 31			
401612 (064B)	03/06/16	R/W	Time	Hour	00 to 23	-		
401613 (064C)				Minute	00 to 59			
401614 (064D)				Second	00 to 59			
401615 (064E)	03/06/16	R/W	Date Type	Date type	0: yy/mm/dd, 1: mm/dd/yy, 2: dd/mm/yy	-	yyyy/mm/dd	
401616 (064F)	03/06/16	R/W	Summer Time Enable	Summer time	0: Disable, 1:Enable	-	Disable	
401617 (0650)	03/06/16	R/W	Summer Time Period	Summer time start time	Month 01 to 12	-	m	
401618 (0651)					Day 01 to 31	-	d	
401619 (0652)					Hour 0 to 23	-	h	
401620 (0653)				Sumer time end time	Month 01 to 12	-	m	
401621 (0654)					Day 01 to 31	-	d	
401622 (0655)					Hour 0 to 23	-	h	
401636 (0663)	03/06/16	R/W	Alarm Sound	Alarm sound	0:Off, 1: Min, 2:Standard, 3:Max	-	Standard	
401637 (0664)	03/06/16	R/W	Sampling Rate	Sampling period	0:25, 1:125, 2:250 (Available below 25ms 4 channel)	ms	125	
401638 (0665)	03/06/16	R/W	Log Speed	Save period	0 to 3600	s	None (0s)	
401639 (0666)	03/06/16	R/W	Backlight	LCD backlight brightness	0:OFF, 1:Min, 2:Standard, 3:Max	-	Standard	
401640 (0667)	03/06/16	R/W	Backlight On/Off	LCD backlight ON method	0:Temp, 1: Always	min.	Temp	
401641 to 401650	03/06/16	Reserved						

3.4.7 RESERVATION SETUP(Reservation setting)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401623 (0656)	03/06/16	R/W	Reservation Type	Reservation record	0:Disable, 1:Single, 2:Repeat	-	Disable	
401624 (0657)	03/06/16	R/W	Reservation Period start	Reservation record start date	Year 2000 to 2099	-		Start time and end time cannot be same. Ex) Start time: 2000-01-01 00:00:00 End time: 2000-01-01 00:00:01
401625 (0658)					Month 01 to 12			
401626 (0659)					Day 01 to 31			
401627 (065A)	03/06/16	R/W	Reservation Time start	Reservation record start time	Hour 00 to 23	-		
401628 (065B)					Min. 00 to 59			
401629 (065C)					Sec. 00 to 59			
401630 (065D)	03/06/16	R/W	Reservation Period stop	Reservation record end date	Year 2000 to 2099			
401631 (065E)					Month 01 to 12			
401632 (065F)					Day 01 to 31			
401633 (0660)	03/06/16	R/W	Reservation Time stop	Reservation record end time	Hour 00 to 23			
401634 (0661)					Min. 00 to 59			
401635 (0662)					Sec. 00 to 59			

3.4.8 FILE/MEMORY SETUP(File/Memory setting)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401651 (0672)	03/06/16	W	Load Parameter Set File ※11	Open parameter setting file	0: None, 1: default.pms※12, 2: User1.pms, 3:User2.pms, 4:User3.pms, 5:User4.pms, 6:User5.pms	-	None	Disable to set in User mode.
401652 (0673)	03/06/16	W	Save Set File	Save parameter setting file	0: None, 1: User1.pms, 2:User2.pms, 3:User3.pms, 4:User4.pms, 5:User5.pms	-	None	
401653 (0674)	03/06/16	R	Memory Status	Memory capacity	0 to 100	%	-	
401654 (0675)	03/06/16	W	Memory Clear※13	-	-	-	-	-
401655 (0676)	03/06/16	R/W	Memory Save Option	Memory storage option	0:Stop, 1:Overwrite	-	Overwrite	
401656 to 401700	03/06/16	-	Reserved					

※11. This setting changes overall system settings. After the setting, communication setting is also changed and communication may be disconnected. Be careful that changed alarm setting may operate alarm output.
It enables to set not in Password mode, and if in Password mode, it is available only in Admin mode.

※12. Be sure that the set as default.pms, every setting is initialized. It enables to set not in Password mode, and if in Password mode, it is available only in Admin mode.

※13. Memory Clear(Log file delete) function is not available as communication function.

3.4.9 USER INFORMATION SETUP(User information setting)

No(Address)	Func	R/W	Parameter	Description	Set range	Unit	Default	Note
401701 (06A4)	03/06/16	R/W	Password	Password mode	0:Disable, 1:Enable	-	Disable	
401702 (06A5)	03/06/16	R/W	Login Admin	Administrator log in	'0000' to '9999'	-	'0000'	Enables in Password mode.
401703 (06A6)								
401704 (06A7)	03/06/16	R/W	Change Admin	Change password by administrator	'0000' to '9999'	-	'0000'	Enables to set in Admin mode.
401705 (06A8)								
401706 (06A9)	03/06/16	R/W	User Lock	Change user authority	0:OFF, 1:LOCK1, 2:LOCK2, 3:LOCK3	-	OFF	Enables to set in Admin mode.
401707 to 401750	03/06/16	R/W	Reserved					

 If changing general user to administrator by communication, KRN100 is also changed as administrator authority. Or by KRN100 front key, it operates as administrator authority from Modbus communication.

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* Dimensions or specifications on this manual are subject to change and some models may be discontinued without notice.