CC-Link Communication Converter

Communication COM-JC [For FB100/FB400/FB900] Data List

In order to achieve maximum performance and ensure proper operation of your new instrument, carefully read all the instructions in the manual. Please place this manual in a convenient location for easy reference.

This manual describes the communication data only.

For detailed handling procedures and functions, refer to separate COM-JC [For FB100/FB400/FB900] Instruction Manual (IMR01Y06-E□).

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

1. REMOTE INPUT/OUTPUT

Remote input (RX) and Remote output (RY) is ON/OFF data.

"n" in the table is the address assigned to the master station by the station number setting. It can be calculated by the following equation. However, the computing equation is when a network is configured only by using our COM-JCs and the number of all exclusive stations/extended cyclic are at the same setting.

| Number of Occupied stations/Extended cyclic setting | Equation |
|---|---|
| 1 station occupied 1 time | $n = (Station number * - 1) \times 2$ |
| 4 stations occupied 1 time | $n = (Station number * - 1) \times 2$ |
| 4 stations occupied 2 times | $n = (Station number * - 1) \times 3.5$ |

Station number when there is one occupied station: 1 to 64 (each number can be set)

Station number when there are four occupied stations: 1 to 61
(Four stations are occupied for each station number, and thus only numbers that are increments of four can be set: 1.5.9 · · · 61)

As the calculation result is expressed in decimal number it is converted to hexadecimal number before substituted for "n" in the table.

Example: When the COM-JC is set to 4 stations occupied 1 time and its station number

 $n = (5-1) \times 2 = 8$ (Decimal number) $\rightarrow 8$ (Hexadecimal number)

For station number 5: Remote inputs RXn0 to RX (n+7) F \rightarrow RX80 to RXFF Remote outputs RYn0 to RY (n+7) F \rightarrow RY80 to RYFF

Assignment of controllers (FB100/400/900) to "Device address (1st to 16th controller)" in the list can be done at "Extension No. 503 Address setting of connected controller." In case controllers are used with the factory set values, controllers 1 to 16 (Device address 1 to 16) are assigned to "Device address (1st to 16th controller)" in the list.

1.1 1 Station Occupied 1 Time

■ Remote input list

Data direction: COM-JC (Remote device station) → Master station (PLC)

| Address | Communication item | | Data range | Factory set value |
|---------------------------|-----------------------------|--------------------------------|--|----------------------|
| RXn0 | Device | Event 1 state | 0: OFF | _ |
| RXn1 | address | Event 2 state | 1: ON | _ |
| RXn2 | (1st | Burnout state | | _ |
| RXn3 | controller) | Heater break alarm (HBA) state | 0: OFF 1: ON | _ |
| RXn4 | | PID/AT transfer | 0: PID control 1: Autotuning (AT) | _ |
| RXn5 | Device | Event 1 state | Same as device address | _ |
| RXn6 | address | Event 2 state | (1st controller) | _ |
| RXn7 | (2nd | Burnout state | | _ |
| RXn8 | controller) | Heater break alarm (HBA) state | | _ |
| RXn9 | | PID/AT transfer | | _ |
| RXnA | Unused | | _ | _ |
| RXnB | | | | |
| RXnC | Extended display completion | | 0: OFF | _ |
| RXnD | Extended setting completion | | 1: ON | _ |
| RXnE | Unused | | _ | _ |
| RXnF | Hardware error flag | | 0: OFF 1: ON When COM-JC self-diagnostic error occurred except for communication error, turned ON. | _ |
| RX(n+1)0 : RX(n+1)7 | Reserved | | | _ |
| RX(n+1)8 | Initialize data | a processing request flag | 0: OFF | _ |
| RX(n+1)9 | | a setting completion flag | 1: ON | _ |
| RX(n+1)A | Error status flag | | 0: OFF 1: ON When communication error occurred, turned ON. | _ |
| RX(n+1)B | Remote ready | | Not ready state Ready state | _ |
| RX(n+1)C : | Reserved | | _ | _ |
| RX(n+1)F | | | | ĺ |

■ Remote output list

Data direction: Master station (PLC) → COM-JC (Remote device station) Data capacity: 32-bit

| Address | | Communication item | Data range | Factory set value |
|---------|-------|------------------------------|--------------------------------|-------------------|
| RYn0 | Bit 0 | Extension number for display | Display extension number are | 0 |
| RYn1 | Bit 1 | , , | specified by the ON/OFF states | |
| RYn2 | Bit 2 | | of RYn0 to RYn5. | |
| RYn3 | Bit 3 | | Data 0: OFF 1: ON | |
| RYn4 | Bit 4 | | [Decimal number: 0 to 63] | |
| RYn5 | Bit 5 | | [| |

| Communication item | | Data range | Factory set value |
|--|---|--|----------------------|
| Bit 0 | Extension number for setting | Setting extension number are | 0 |
| Bit 1 | _ | specified by the ON/OFF states | |
| Bit 2 | | of RYn6 to RYnB | |
| | | Data 0: OFF 1: ON | |
| | | [Decimal number: 0 to 63] | |
| Bit 5 | | , | |
| Extend | led display flag | 0: OFF 1: ON | 0 |
| Extended setting flag (Setting update flag) | | 0: OFF 1: ON | 0 |
| Unused | | _ | _ |
| RUN/STOP transfer | | COM-JC*01-1 0: RUN 1: STOP COM-JC*01-2 0: STOP 1: RUN | 0 |
| Reserved | | _ | _ |
| Initializ flag | e data processing completion | 0: OFF 1: ON | 0 |
| Initializ | e data setting request flag | 0: OFF 1: ON | 0 |
| Error reset request flag | | 0: OFF 1: ON | 0 |
| Reserv | ved | _ | _ |
| | Bit 0 Bit 1 Bit 2 Bit 3 Bit 4 Bit 5 Extend (Setting Unuse RUN/S Reserv Initializ flag Initializ | Bit 0 Bit 1 Bit 2 Bit 3 Bit 4 Bit 5 Extension number for setting Bit 3 Bit 4 Bit 5 Extended display flag Extended setting flag (Setting update flag) Unused RUN/STOP transfer Reserved Initialize data processing completion flag Initialize data setting request flag | Bit 0 |

1.2 4 Station Occupied 1 Time

■ Remote input list

Data direction: COM-JC (Remote device station) → Master station (PLC) Data capacity: 128-bit

| Address | (| Communication item | Data range | Factory set value |
|----------------------|------------------|--|--|-------------------|
| RXn0 | Device | Event 1 state | 0: OFF | _ |
| RXn1 | address | Event 2 state | 1: ON | |
| RXn2 | (1st | Burnout state | | |
| RXn3 | controller) | Heater break alarm (HBA) state | 0: OFF 1: ON | _ |
| RXn4 | | PID/AT transfer | 0: PID control 1: Autotuning (AT) | _ |
| RXn5 | Device | Event 1 state | Same as device address | _ |
| RXn6 | address | Event 2 state | (1st controller) | _ |
| RXn7 | (2nd | Burnout state | | _ |
| RXn8 | controller) | Heater break alarm (HBA) state | | |
| RXn9 | | PID/AT transfer | | _ |
| RXnA RXnB | Unused | | _ | _ |
| RXnC | Extended of | display completion | 0: OFF | _ |
| RXnD | Extended s | setting completion | 1: ON | _ |
| RXnE | Unused | | | _ |
| RXnF | Hardware e | error flag | 0: OFF 1: ON When COM-JC self- diagnostic error occurred except for communication error, turned ON. | _ |
| RX(n+1)0 : | Unused | | _ | _ |
| RX(n+1)F RX(n+2)0 | Device | Event 1 state | Same as device address | _ |
| RX(n+2)0 RX(n+2)1 | address | Event 2 state | (1st controller) | -= |
| RX(n+2)2 | (3rd | Burnout state | (1st controller) | |
| RX(n+2)3 | controller) | Heater break alarm (HBA) state | | |
| RX(n+2)4 | · · | PID/AT transfer | | |
| RX(n+2)5 | Device | Event 1 state | Same as device address | |
| RX(n+2)6 | address | Event 2 state | (1st controller) | _ |
| RX(n+2)7 | (4th | Burnout state | , | _ |
| RX(n+2)8 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+2)9 | | PID/AT transfer | | _ |
| RX(n+2)A | Device | Event 1 state | Same as device address | _ |
| RX(n+2)B | address | Event 2 state | (1st controller) | |
| RX(n+2)C | (5th | Burnout state | | |
| RX(n+2)D | controller) | Heater break alarm (HBA) state | | |
| RX(n+2)E | | PID/AT transfer | | |
| RX(n+2)F | Device | Event 1 state | Same as device address | |
| RX(n+3)0 | address (6th | Event 2 state | (1st controller) | |
| RX(n+3)1 RX(n+3)2 | controller) | Burnout state Heater break alarm (HBA) state | | |
| RX(n+3)3 | 001111011011 | PID/AT transfer | | |
| RX(n+3)4 | Device | Event 1 state | Same as device address | |
| RX(n+3)5 | address | Event 2 state | (1st controller) | - |
| RX(n+3)6 | (7th | Burnout state | , , | _ |
| RX(n+3)7 | controller) | Heater break alarm (HBA) state | | |
| RX(n+3)8 | | PID/AT transfer | | |
| RX(n+3)9 | Device | Event 1 state | Same as device address | _ |
| RX(n+3)A | address | Event 2 state | (1st controller) | _ |
| RX(n+3)B | (8th | Burnout state | | _ |
| RX(n+3)C | controller) | Heater break alarm (HBA) state | | |
| RX(n+3)D | Llauaad | PID/AT transfer | | |
| RX(n+3)E | Unused | | _ | |
| RX(n+3)F RX(n+4)0 | Unused Device | Event 1 state | Same as device address | |
| RX(n+4)0 | address | Event 2 state | (1st controller) | == |
| RX(n+4)2 | (9th | Burnout state | (| |
| RX(n+4)3 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+4)4 | ĺ | PID/AT transfer | | |
| RX(n+4)5 | Device | Event 1 state | Same as device address | _ |
| RX(n+4)6 | address | Event 2 state | (1st controller) | |
| RX(n+4)7 | (10th | Burnout state | | |
| RX(n+4)8 | controller) | Heater break alarm (HBA) state | | |
| RX(n+4)9 | | PID/AT transfer | | |
| RX(n+4)A | Device | Event 1 state | Same as device address | |
| RX(n+4)B | address | Event 2 state | (1st controller) | |
| RX(n+4)C | (11th | Burnout state | | |
| RX(n+4)D | controller) | Heater break alarm (HBA) state | | |
| RX(n+4)E | | PID/AT transfer | | |

| Address | С | ommunication item | Data range | Factory set value |
|---------------|-----------------|--------------------------------|----------------------------|-------------------|
| RX(n+4)F | Device | Event 1 state | Same as device address | _ |
| RX(n+5)0 | address | Event 2 state | (1st controller) | _ |
| RX(n+5)1 | (12th | Burnout state | | _ |
| RX(n+5)2 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+5)3 | | PID/AT transfer | | _ |
| RX(n+5)4 | Device | Event 1 state | Same as device address | _ |
| RX(n+5)5 | address | Event 2 state | (1st controller) | _ |
| RX(n+5)6 | (13th | Burnout state | | _ |
| RX(n+5)7 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+5)8 | | PID/AT transfer | | _ |
| RX(n+5)9 | Device | Event 1 state | Same as device address | _ |
| RX(n+5)A | address | Event 2 state | (1st controller) | _ |
| RX(n+5)B | (14th | Burnout state | | _ |
| RX(n+5)C | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+5)D | | PID/AT transfer | | _ |
| RX(n+5)E | Unused | | | _ |
| RX(n+5)F | Unused | | | _ |
| RX(n+6)0 | Device | Event 1 state | Same as device address | _ |
| RX(n+6)1 | address | Event 2 state | (1st controller) | _ |
| RX(n+6)2 | (15th | Burnout state | | _ |
| RX(n+6)3 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+6)4 | | PID/AT transfer | | _ |
| RX(n+6)5 | Device | Event 1 state | Same as device address | _ |
| RX(n+6)6 | address | Event 2 state | (1st controller) | _ |
| RX(n+6)7 | (16th | Burnout state | | _ |
| RX(n+6)8 | controller) | Heater break alarm (HBA) state | | _ |
| RX(n+6)9 | | PID/AT transfer | | _ |
| RX(n+6)A | Unused | | _ | _ |
| : | | | | |
| RX(n+6)F | | | | |
| RX(n+7)0 | Reserved | | _ | _ |
| RX(n+7)7 | | | | |
| RX(n+7)8 | Initialize data | a processing request flag | 0: OFF | _ |
| RX(n+7)9 | Initialize data | a setting completion flag | 1: ON | _ |
| RX(n+7)A | Error status | flag | 0: OFF | _ |
| | | | 1: ON | |
| | | | When communication | |
| | | | error occurred, turned ON. | |
| RX(n+7)B | Remote rea | dy | Not ready state | _ |
| RX(n+7)C | Reserved | | 1: Ready state | |
| : : | Reserved | | _ | _ |
| : RX(n+7)F | | | | |
| rox(ii+1)f | | | | |

■ Remote output list

Data direction: Master station (PLC)

COM-JC (Remote device station) Data capacity: 128-bit

| Address | | Communication item | Data range | Factory set value |
|----------------------|----------------|---|--|----------------------|
| RYn0 | Bit 0 | Extension number for display | Display extension number are | 0 |
| RYn1 | Bit 1 | | specified by the ON/OFF states | |
| RYn2 | Bit 2 | | of RYn0 to RYn5 and RY(n+1)0 | |
| RYn3 | Bit 3 | | to RY(n+1)2. | |
| RYn4 | Bit 4 | | Data 0: OFF 1: ON | |
| RYn5 | Bit 5 | | [Decimal number: 0 to 511] | |
| RYn6 | Bit 0 | Extension number for setting | Setting extension number are | 0 |
| RYn7 RYn8 | Bit 1 Bit 2 | | specified by the ON/OFF states of RYn6 to RYnB and | |
| RYn8 RYn9 | Bit 2 | | RY(n+1)8 to RY(n+1)A. | |
| RYnA | Bit 4 | | Data 0: OFF 1: ON | |
| RYnB | Bit 5 | | [Decimal number: 0 to 511] | |
| RYnC | | ed display flag | 0: OFF | 0 |
| RYnD | | ed setting flag (Setting update flag) | 1: ON | 0 |
| RYnE | Unuse | | _ | |
| RYnF | | TOP transfer | COM-JC*01-1 0: RUN | 0 |
| | | | 1: STOP | |
| | | | COM-JC*01-2 0: STOP | |
| | | | 1: RUN | |
| RY(n+1)0 | Bit 6 | Extension number for display | Display extension number are | 0 |
| RY(n+1)1 | Bit 7 | Bit 9 to Bit 13: Unused | specified by the ON/OFF states | |
| RY(n+1)2 | Bit 8 | | of RYn0 to RYn5 and RY(n+1)0 | |
| RY(n+1)3 | Bit 9 | | to RY(n+1)2. | |
| RY(n+1)4 | Bit 10 | | Data 0: OFF 1: ON | |
| RY(n+1)5 | Bit 11 | | [Decimal number: 0 to 511] | |
| RY(n+1)6 | Bit 12 | | | |
| RY(n+1)7 RY(n+1)8 | Bit 6 | Extension number for setting | Cotting outonaion number are | 0 |
| RY(n+1)9 | Bit 7 | Extension number for setting Bit 9 to Bit 13: Unused | Setting extension number are specified by the ON/OFF states | U |
| RY(n+1)A | Bit 8 | Bit 9 to Bit 13: Unused | of RYn6 to RYnB and | |
| RY(n+1)B | Bit 9 | | RY(n+1)8 to RY(n+1)A. | |
| RY(n+1)C | Bit 10 | | Data 0: OFF 1: ON | |
| RY(n+1)D | Bit 11 | | [Decimal number: 0 to 511] | |
| RY(n+1)E | Bit 12 | | [Decimal number: 0 to 311] | |
| RY(n+1)F | Bit 13 | | | |
| RY(n+2)0 | Bit 0 | Area number for display | Display area number are | 0 |
| RY(n+2)1 | Bit 1 | Bit 4 to Bit 7: Unused | specified by the ON/OFF states | |
| RY(n+2)2 | Bit 2 | | of RY(n+2)0 to RY(n+2)3. | |
| RY(n+2)3 | Bit 3 | | Data 0: OFF 1: ON | |
| RY(n+2)4 | Bit 4 | | [Decimal number: 0 to 16] | |
| RY(n+2)5 | Bit 5 | | (0, 9 to 16: Control area) | |
| RY(n+2)6 | Bit 6 | | | |
| RY(n+2)7 | Bit 7 | A | 0-46 | |
| RY(n+2)8 | Bit 0 | Area number for setting | Setting area number are | 0 |
| RY(n+2)9 RY(n+2)A | Bit 1 Bit 2 | Bit 4 to Bit 7: Unused | specified by the ON/OFF states | |
| RY(n+2)A RY(n+2)B | Bit 2 | | of RY(n+2)8 to RY(n+2)B. | |
| RY(n+2)C | Bit 4 | | Data 0: OFF 1: ON | |
| RY(n+2)D | Bit 5 | | [Decimal number: 0 to 16] | |
| RY(n+2)E | Bit 6 | | (0, 9 to 16: Control area) | |
| RY(n+2)F | Bit 7 | | | |
| RY(n+3)0 | Unuse | d | _ | _ |
| `: ' | 1 | | | |
| RY(n+6)F | l | | | |
| RY(n+7)0 | Reserv | red | | |
| `: ' | 1 | | | |
| RY(n+7)7 | l | | | |
| | | | | |

| Address | Communication item | Data range | Factory set value | | |
|--|--|-----------------|----------------------|--|--|
| RY(n+7)8 | Initialize data processing completion flag | 0: OFF 1: ON | 0 | | |
| RY(n+7)9 | Initialize data setting request flag | 0: OFF 1: ON | 0 | | |
| RY(n+7)A | Error reset request flag | 0: OFF 1: ON | 0 | | |
| RY(n+7)B : RY(n+7)F | Reserved | _ | _ | | |
| For Remote input/output address of 4 stations occupied 2 times, refer to COM-JC [For FB100/FB400/FB900] Instruction Manual (IMR01Y06-ECI). | | | | | |

2. REMOTE REGISTER

Remote registers (RWr, RWw) is numeric data.

"n" in the table is the address assigned to the master station by the station number setting. It can be calculated by the following equation. However, the computing equation is when a network is configured only by using our COM-JCs and the number of all Occupied stations/Extended cyclic are at the same setting.

| Number of Occupied stations/Extended cyclic setting | Equation |
|---|---------------------------------------|
| 1 station occupied 1 time | $n = (Station number * - 1) \times 4$ |
| 4 stations occupied 1 time | $n = (Station number * - 1) \times 4$ |
| 4 stations occupied 2 times | $n = (Station number * - 1) \times 8$ |

^{*} Station number when there is one occupied station: 1 to 64 (each number can be set) Station number when there are four occupied stations: 1 to 61

(four stations are occupied for each station number, and thus only numbers that are increments of four

can be set: 1, 5, 9 · · · 61)
As the calculation result is expressed in decimal number it is converted to hexadecimal number before substituted for "n" in the table.

Example: When the COM-JC is set to 4 stations occupied 1 time and its station number

 $n = (5-1) \times 4 = 16$ (Decimal) $\rightarrow 10$ (Hexadecimal)

For station number 5:

Remote registers $\begin{array}{ccc} \text{RWm to RWm+F} & \rightarrow \text{RWr10 to RWr1F} \\ \text{RWwn to RWwn+F} & \rightarrow \text{RWw10 to RWw1F} \\ \end{array}$

Assignment of controllers (FB100/400/900) to "Device address (1st to 16th controller)" in The list can be done at "Extension No. 503 Address setting of connected controller." In case controllers are used with the factory set values, controllers 1 to 16 (Device address 1 to 16) are assigned to "Device address (1st to 16th controller)" in the list.

Data direction of Remote registers (RWr, RWw)
RWr: COM-JC (Remote device station) → Master station (PLC)
RWw: Master station (PLC) → COM-JC (Remote device station)

When the Set value (SV) assigned to the Remote register (RWw) as a fixed value is changed, operation of the extension setting flag (setting update flag) is also necessary. For details, refer to COM-JC [For FB100/FB400/FB900] Quick Instruction Manual (IMR01Y11-EII).

2.1 1 Station Occupied 1 Time (1 Controller Assignment)

■ Remote register (RWr) list

| Address | Communication item | | Data range | Factory set value |
|---------|--------------------|--------------------------------|---|-------------------|
| RWm | Device | Measured value (PV) | Input scale low to Input scale high | _ |
| RWm+1 | address (1st | Manipulated output value (MV1) | -5.0 to +105.0 % | _ |
| RWm+2 | controller) | Unused | _ | _ |
| RWm+3 | | For extended area display | Data corresponding to the extension number specified by setting the display extension number from RYn0 to RYn5. | _ |

■ Remote register (RWw) list

| Address | Co | mmunication item | Data range | Factory set value |
|---------|---------------------|---------------------------|---|----------------------|
| RWwn | Device address | Set value (SV) | Setting limiter low to Setting limiter high | 0 |
| RWwn+1 | (1st controller) | Event 1 set value | Deviation: -Input span to +Input span Process and set value: Input scale low to | 50 |
| RWwn+2 | | Event 2 set value | Input scale high Manipulated output value (MV1/MV2): -5.0 to +105.0 % | 50 |
| RWwn+3 | | For extended area setting | Data corresponding to the extension number specified by setting the setting extension number from RYn6 to RYnB. | _ |

2.2 1 Station Occupied 1 Time (2 Controllers Assignment) ■ Remote register (RWr) list

| Address | Communication ite | Data range | Factory set value | |
|-----------|----------------------------------|--------------|---|--------------|
| RWm | Device address (1st controller) | Measured | Input scale low to | - |
| RWm+1 | Device address (2nd controller) | value (PV) | Input scale high | _ |
| RWm+2 | Device address (1st controller) | For extended | Note 1 | _ |
| RWm+3 | Device address (2nd controller) | area display | Note 1 | _ |
| Note 1 De | to componenting to the extension | | l leve a atting a the align lave a stage. | siam mumahan |

Note 1 Data corresponding to the extension number specified by setting the display extension number from RYn0 to RYn5.

■ Remote register (RWw) list

Data capacity: 4 words

| Address | Communication ite | ems | Data range | Factory set value |
|---------|---------------------------------|----------------|------------------------|-------------------|
| RWwn | Device address (1st controller) | Set value (SV) | Setting limiter low to | 0 |
| RWwn+1 | Device address (2nd controller) | | Setting limiter high | 0 |
| RWwn+2 | Device address (1st controller) | For extended | Note 2 | _ |
| RWwn+3 | Device address (2nd controller) | area setting | Note 2 | _ |
| | | | | |

Note 2 Data corresponding to the extension number specified by setting the setting extension number from RYn6 to RYnB.

2.3 4 Stations Occupied 1 Time (8 Controller Assignment) When read data

■ Remote register (RWr) list

| Address | Communication i | tems | Data range | Factory set value | |
|---------|---------------------------------|----------------|--------------------------|----------------------|--|
| RWrn | Device address (1st controller) | Measured value | Input scale low to | _ | |
| RWrn+1 | Device address (2nd controller) | (PV) | Input scale high | _ | |
| RWrn+2 | Device address (3rd controller) | 1 | | _ | |
| RWrn+3 | Device address (4th controller) | 1 | | _ | |
| RWrn+4 | Device address (5th controller) | 1 | | _ | |
| RWrn+5 | Device address (6th controller) | 1 | | _ | |
| RWrn+6 | Device address (7th controller) | 1 | | _ | |
| RWrn+7 | Device address (8th controller) | 1 | | _ | |
| RWrn+8 | Device address (1st controller) | For extended | Data corresponding to | _ | |
| RWrn+9 | Device address (2nd controller) | area display | the extension number | _ | |
| RWrn+A | Device address (3rd controller) | 1 | specified by setting the | _ | |
| RWrn+B | Device address (4th controller) | 1 | display extension | _ | |
| RWrn+C | Device address (5th controller) | 1 | number from RYn0 to | _ | |
| RWrn+D | Device address (6th controller) | 1 | RYn5 and from | _ | |
| RWrn+E | Device address (7th controller) | 1 | RY(n+1)0 to RY(n+1)2. | _ | |
| RWrn+F | Device address (8th controller) | 1 | | _ | |

■ Remote register (RWw) list

Data capacity: 16 words

| Address | Communication i | tems | Data range | Factory set value |
|---------|---------------------------------|----------------|--------------------------|-------------------|
| RWwn | Device address (1st controller) | Set value (SV) | Setting limiter low to | 0 |
| RWwn+1 | Device address (2nd controller) | | Setting limiter high | 0 |
| RWwn+2 | Device address (3rd controller) | | | 0 |
| RWwn+3 | Device address (4th controller) | | | 0 |
| RWwn+4 | Device address (5th controller) | | | 0 |
| RWwn+5 | Device address (6th controller) | | | 0 |
| RWwn+6 | Device address (7th controller) | | | 0 |
| RWwn+7 | Device address (8th controller) | | | 0 |
| RWwn+8 | Device address (1st controller) | For extended | Data corresponding to | _ |
| RWwn+9 | Device address (2nd controller) | area setting | the extension number | _ |
| RWwn+A | Device address (3rd controller) | | specified by setting the | _ |
| RWwn+B | Device address (4th controller) | | setting extension | _ |
| RWwn+C | Device address (5th controller) | | number from RYn6 to | _ |
| RWwn+D | Device address (6th controller) | | RYnB and from | _ |
| RWwn+E | Device address (7th controller) | | RY(n+1)8 to RY(n+1)A. | _ |
| RWwn+F | Device address (8th controller) | | | _ |

2.4 4 Stations Occupied 1 Time (16 Controllers Assignment)

■ Remote register (RWr) list

| Address | ess Communication items | | Data range | Factory set value |
|---------|----------------------------------|--------------|--------------------------|----------------------|
| RWrn | Device address (1st controller) | For extended | Data corresponding to | _ |
| RWrn+1 | Device address (2nd controller) | area display | the extension number | _ |
| RWrn+2 | Device address (3rd controller) | | specified by setting the | _ |
| RWrn+3 | Device address (4th controller) | | display extension | _ |
| RWrn+4 | Device address (5th controller) | | number from RYn0 to | _ |
| RWrn+5 | Device address (6th controller) | | RYn5 and from | _ |
| RWrn+6 | Device address (7th controller) | | RY(n+1)0 to RY(n+1)2. | _ |
| RWrn+7 | Device address (8th controller) | | | _ |
| RWrn+8 | Device address (9th controller) | | | _ |
| RWrn+9 | Device address (10th controller) | | | _ |
| RWrn+A | Device address (11th controller) | | | _ |
| RWrn+B | Device address (12th controller) | | | _ |
| RWrn+C | Device address (13th controller) | | | _ |
| RWrn+D | Device address (14th controller) | | | _ |
| RWrn+E | Device address (15th controller) | | | _ |
| RWrn+F | Device address (16th controller) | | | _ |

■ Remote register (RWw) list

| Address | ddress Communication item | | ress Communication items | | Data range | Factory set value |
|---------|----------------------------------|--------------|--------------------------|---|------------|----------------------|
| RWwn | Device address (1st controller) | For extended | Data corresponding to | _ | | |
| RWwn+1 | Device address (2nd controller) | area setting | the extension number | _ | | |
| RWwn+2 | Device address (3rd controller) | | specified by setting the | _ | | |
| RWwn+3 | Device address (4th controller) | | setting extension | _ | | |
| RWwn+4 | Device address (5th controller) | | number from RYn6 to | _ | | |
| RWwn+5 | Device address (6th controller) | | RYnB and from | _ | | |
| RWwn+6 | Device address (7th controller) | | RY(n+1)8 to RY(n+1)A. | _ | | |
| RWwn+7 | Device address (8th controller) | | | _ | | |
| RWwn+8 | Device address (9th controller) | | | _ | | |
| RWwn+9 | Device address (10th controller) | | | _ | | |
| RWwn+A | Device address (11th controller) | | | _ | | |
| RWwn+B | Device address (12th controller) | | | _ | | |
| RWwn+C | Device address (13th controller) | | | _ | | |
| RWwn+D | Device address (14th controller) | | | _ | | |
| RWwn+E | Device address (15th controller) | | | _ | | |
| RWwn+F | Device address (16th controller) | | | _ | | |

For Remote register address of 4 stations occupied 2 times, refer to COM-JC [For FB100/FB400/FB900] Instruction Manual (IMR01Y06-E□).

3. SETTING OF EXTENSION NUMBER

Communication items which are handled in the extension areas of the Remote registers (RWr and RWw) are specified by the extension number, If the necessary data is selected from a list of extension numbers and that extension number is set by remote output, the data can be handled in the Remote registers (RWr and RWw).

Setting of extension number for display

Extension number for display sets it with Remote output RYn0 to RYn5, RY(n+1)0 to RY(n+1)2.

| _ | 3 - | | | | | | | | |
|---|----------|----------|----------|-------|-------|-------|-------|-------|-------|
| I | RY(n+1)2 | RY(n+1)1 | RY(n+1)0 | RYn5 | RYn4 | RYn3 | RYn2 | RYn1 | RYn0 |
| I | Bit 8 | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |

Bit data: 0: OFF 1: ON [Decimal number: 0 to 511]

■ When write data

Setting of extension number for setting

Extension number for setting sets it with Remote output RYn6 to RynB, RY(n+1)8 to RY(n+1)A.

| ١ | oit image | | | | | | | | |
|---|-----------|----------|----------|-------|-------|-------|-------|-------|-------|
| | RY(n+1)A | RY(n+1)9 | RY(n+1)8 | RYnB | RYnA | RYn9 | RYn8 | RYn7 | RYn6 |
| | Bit 8 | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 | Bit 0 |
| | | | | | | | | | |

Bit data: 0: OFF 1: ON [Decimal number: 0 to 511]

Example: When setting the setting extension number to the Set value (SV), "3." Number of Occupied stations/Extended cyclic setting: 4 stations occupied 1 time Extension number 3: Bit 8 Bit 7 Bit 6 Bit 5 Bit 4 Bit 3 Bit 2 Bit 1 Bit 0 0 0 0 0 0 0 1 1

For extension number of Memory area, refer to COM-JC [For FB100/FB400/FB900] Instruction Manual (IMR01Y06-EII).

4. EXTENSION NUMBER LIST

Attribute Attribute

RO: Read only data [COM-, IC (Remote device station) → Master station (PLC)] R/W: Read and Write data [COM-JC (Remote device station) ↔ Master station (PLC)] Reading data of unused setting items are factory set values. Unused setting items may not be written. To do so will not cause an error however and data will be

★: Data related Multi-memory area function

| Extension number | Communication items | Attri- bute | Data range | Factory set value |
|------------------|--|----------------|---|--|
| 0 | Measured value (PV) | RO | Input scale low to Input scale high | |
| 1 | Manipulated output value (MV1) monitor [heat-side] | RO | PID control or Heat/Cool PID control: -5.0 to +105.0 % Position proportioning PID control with | |
| | | | feedback resistance (FBR) input: 0.0 to 100.0 % | |
| 2 | Current transformer 1 (CT1) input value monitor | RO | 0.0 to 30.0 A (CTL-6-P-N) 0.0 to 100.0 A (CTL-12-S56-10L-N) | I |
| з | Set value (SV) ★ | R/W | Setting limiter low to Setting limiter high | TC/RTD inputs: 0 V/I inputs: 0.0 |
| 4 | PID/AT transfer ¹ | R/W | 0: PID control 1: Autotuning (AT) | 0 |
| 5 | Proportional band [heat-side] ★ | R/W | TC/RTD inputs: 0 (0.0, 0.00) to Input span ² (Unit: °C [°F]) Voltage (V)/Current (I) inputs: 0.0 to 1000.0 % of Input span (0, 0.0 or 0.00: ON/OFF action) | TC/RTD inputs: 30 V/I inputs: 30.0 |
| 6 | Integral time [heat-side] ★ | R/W | PID control or Heat/Cool PID control: 0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: PD action) ⁴ Position proportioning PID control: 1 to 3600 seconds or 0.1 to 1999.9 seconds ³ | 240 |
| 7 | Derivative time [heat-side] ★ | R/W | 0 to 3600 seconds or 0.0 to 1999.9 seconds ³ (0, 0.0: Pl action) | 60 |
| 8 | PV bias | R/W | -Input span to +Input span 2 | 0 |
| 9 | Event 1 set value ★ | R/W | Deviation: -Input span to +Input span 2 Process and Set value: | 50 |
| 10 | Event 2 set value ★ | RW | Input scale low to Input scale high ² Manipulated output value (MV1 or MV2): -5.0 to +105 % | 50 |
| 11 to 15 | Reserved | _ | _ | |
| 16 | Unused | | _ | |
| 17 | RUN/STOP transfer | R/W | COM-JC*01-1 0: RUN 1: STOP COM-JC*01-2 0: STOP 1: RUN | 0 |
| 18 | Proportional cycle time [heat-side] | RW | 0.1 to 100.0 seconds M: Relay contact T: Triac V: Voltage pulse D: Open collector | M: 20.0 V, T, D: 2.0 |
| 19 | Auto/Manual transfer | RW | 0: Auto mode 1: Manual mode | 0 |
| 20 | Manual manipulated output value | R/W | PID control: Output limiter low [MV1] to Output limiter high [MV1] Heat/Cool PID control: -Output limiter high [MV2] to + Output limiter high [MV1] (-105.0 to +105.0 %) Position proportioning PID control with feedback resistance (FBR) input: Output limiter low [MV1] to | 0.0 |

- For the operation, refer to the "3. CC-Link FLAG OPERATION" of the COM-JC [For FB100/FB400/FB900] Quick Instruction Manual (IMR01Y11-ECI).

 Varies with the setting of the Decimal point position selection.

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

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

| 21, 22 | items | bute | Data range | set value |
|--|---|----------------|--|--|
| റാ | Data of Engineering mode | 1 | | |
| 23 24 | PV digital filter Heater break alarm 1 (HBA1) set value | R/W R/W | 0.0 to 100.0 seconds (0.0: Unused) 0.0 to 30.0 A (CTL-6-P-N) 0.0 to 100.0 A (CTL-12-S56-10L-N) (0.0: Unused) | 0.0 |
| 25 26 | Data of Engineering mode Manipulated output value | 1 RO | -5.0 to +105.0 % | _ |
| 27 | (MV2) monitor [cool-side] Proportional band [cool-side] ★ | R/W | TC/RTD inputs: 1 (0.1, 0.01) to Input span ² (Unit: °C [°F]) Voltage (V)/Current (I) inputs: | TC/RTD inputs: 30 V/I inputs: |
| 28 | Proportional cycle time | R/W | 0.1 to 1000.0 % of Input span Same as Proportional cycle time [heat-side] | 30.0 |
| 29 | [cool-side] Overlap/Deadband ★ | R/W | TC/RTD inputs: | 0 |
| 29 | Overiap/Deadbarid ₩ | R/VV | -Input span to -Input span ² (Unit: °C [°F]) Voltage (V)/Current (I) inputs: -100.0 to +100.0 % of input span Minus (-) setting results in Overlap. However, the overlapping range is within the proportional range. | U |
| 30 31 | Unused Set value monitor | RO | Setting limiter low to Setting limiter high | |
| 32 | Error code | RO | Bit data Bit 0: Adjustment data error Bit 1: Backup error Bit 2: A/D conversion error Bit 3: and Bit 4: Unused Bit 5: Custom data error Bit 6: Unused Bit 7: Watchdog timer error Bit 8: Stack overflow Bit 9 and Bit 10: Unused Bit 11: Program error (busy) Bit 12 to Bit 15: Unused Data 0: OFF 1: ON | _ |
| 33 | Memory area transfer | R/W | 1 to 8 | 1 |
| 34 | Control response parameter ★ | R/W | O: Slow 1: Medium 2: Fast [When the P or PD action is selected, this setting becomes invalid.] | PID control, Position proportioning PID control: 0 Heat/Cool PID control: 2 |
| 35 | Unused | 1 | _ | _ |
| 36 37 | Data of Engineering mode Setting change rate limiter (up) ★ | R/W | 0 to Input span ² /unit time (0: Unused) [Unit time: 60 seconds (Factory set value)] | 0 |
| 38 to 44 45 | Data of Engineering mode Unused | <u> </u> | т | |
| 46, 47 | Data of Engineering mode | 1 | | |
| 48, 49 50 | Unused Control loop break alarm | | 0 to 7200 seconds (0: Unused) | 480 |
| 51 | (LBA) time ★ LBA deadband ★ | R/W | 0 to Input span ² | 0 |
| 52, 53 | Unused | _ | — — | _ |
| 54 | Event 3 set value ★ | | | 50 |
| | Frank Anatomber A | | Same as Event 1 set value | |
| 55 56 to 61 | Event 4 set value ★ Data of Engineering mode | 1 | Same as Event 1 set value | 50 |
| 55 56 to 61 62 | Data of Engineering mode Setting change rate limiter | 1 R/W | 0 to Input span ² /unit time * (0: Unused) | 50 |
| 56 to 61 62 63 | Data of Engineering mode Setting change rate limiter (down) ★ Comprehensive event state | RO | 0 to Input span ² /unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] | |
| 56 to 61 62 | Data of Engineering mode Setting change rate limiter (down) ★ Comprehensive event | | 0 to Input span ² /unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON | |
| 56 to 61 62 63 | Data of Engineering mode Setting change rate limiter (down) ★ Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance | RO | 0 to Input span ² /unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] | |
| 56 to 61 62 63 63 64 65, 66 | Data of Engineering mode Setting change rate limiter (down) ** Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance input Memory area soak time | RO RO | O to Input span ²/unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burmout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burmout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] Setting limiter low to Setting limiter high O: OFF 1: ON O to 11999 seconds or 0 to 5999 minutes | |
| 63 63 64 65, 66 67 | Data of Engineering mode Setting change rate limiter (down) ★ Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance input | RO RO RO | 0 to Input span ² /unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] Setting limiter low to Setting limiter high 0: OFF 1: ON | |
| 63 64 65, 66 67 68 69 70 | Data of Engineering mode Setting change rate limiter (down) ★ Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance input Memory area soak time monitor Digital input (DI) state monitor Operation mode state monitor | RO RO RO | O to Input span 2/unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] Setting limiter low to Setting limiter high | |
| 64 65, 66 67 68 69 70 71 to 73 74 | Data of Engineering mode Setting change rate limiter (down) ** Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance input Memory area soak time monitor Digital input (DI) state monitor Operation mode state monitor Unused Unused Output state monitor | RO RO RO RO RO | O to Input span 2/unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burnout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burnout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] Setting limiter low to Setting limiter high — 0: OFF 1: ON 0 to 11999 seconds or 0 to 5999 minutes Data range is different by soak time unit. Bit data Bit 0: D1 Bit 4: D15 Bit 3: D14 Bit 7: D16 3 Bit 2: D13 Bit 6: D17 3 Bit 3: D14 Bit 7: to Bit 15: Unused Data 0: Open 1: Closed [Decimal number: 0 to 127] Bit data Bit 0: Control STOP Bit 1: Control RUN Bit 2: Manual mode 4 Bit 4: to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 15] Bit data Bit 0: OUT1 Bit 4: D03 3 Bit 1: OUT2 Bit 5: D04 3 Bit 1: OUT1 Bit 4: D03 3 Bit 1: OUT2 Bit 5: D04 3 Bit 1: OUT1 Bit 4: D03 3 Bit 1: OUT2 Bit 5: D04 3 Bit 1: OUT2 Bit 6: to Bit 15: Unused Bit 3: DO2 Data 0: OFF 1: ON [Decimal number: 0 to 63] | |
| 64 65, 66 67 68 69 | Data of Engineering mode Setting change rate limiter (down) ** Comprehensive event state Remote setting (RS) input value monitor Unused Burnout state monitor of feedback resistance input Memory area soak time monitor Digital input (DI) state monitor Operation mode state monitor Unused | RO RO RO RO | O to Input span ²/unit time * (0: Unused) * Unit time: 60 seconds (Factory set value) Bit data Bit 0: Burmout Bit 5: Event 3 Bit 1: Event 1 Bit 6: Event 4 Bit 2: Event 2 Bit 7: HBA2 Bit 3: HBA 1 Bit 8: FBR burmout Bit 4: LBA Bit 9 to Bit 15: Unused Data 0: OFF 1: ON [Decimal number: 0 to 511] Setting limiter low to Setting limiter high | |

Data range

- Varies with the setting of the Decimal point position selection.
- Unused on the FB100.
 During operation in Manual mode, the Manual mode of the Operation mode state monitor is set to the "1: ON" state and the Remote mode of the same monitor is set to the "0: OFF" state even if the parameter, Remote/Local transfer is set to "1: Remote mode."

| Extension number | Communication items | Attri- bute | Data range | Fact set v |
|---------------------|--|----------------|--|---------------|
| 90 | Remote/Local transfer | R/W | 0: Local mode | 0 |
| 91 to 109 | Unused | | 1: Remote mode | |
| 110 | Link area number ★ | _ | 0 to 8 (0: No link) | _ |
| 111 | Area soak time ★ | R/W | 0 to 11999 seconds or 0 to 5999 minutes | 0:0 |
| 111 | Alea soak tille A | IVVV | Data range is different by soak time unit. | 0.0 |
| 112 | Integral time | R/W | 0 to 3600 seconds or 0.0 to 1999.9 seconds ¹ | 24 |
| | [cool-side] ★ | | (0, 0.0: PD action) ² | _ |
| 113 | Derivative time | R/W | 0 to 3600 seconds or 0.0 to 1999.9 seconds ¹ | 6 |
| | [cool-side] ★ | | (0, 0.0: Pl action) | |
| 114 to 127 | Unused | | , <u> </u> | _ |
| 128 | Manual reset ★ | R/W | -100.0 to +100.0 % | 0. |
| 129 to 139 | Unused | _ | _ | _ |
| 140 | Heater break | R/W | 0.0 to 100.0 % of HBA1 set value | 30 |
| 444 | determination point 1 | DAA/ | (0.0: Heater break determination is invalid) | 00 |
| 141 | Heater melting determination point 1 | R/W | 0.0 to 100.0 % of HBA1 set value (0.0: Heater melting determination is invalid) | 30 |
| 142 | PV ratio | RW | 0.500 to 1.500 | 1.0 |
| 143 | PV low input cut-off | R/W | 0.00 to 25.00 % of Input span | 0.0 |
| 144 | Set lock level | R/W | Bit data | 0.0 |
| | | | Bit 0: Lock only setting items other than SV and Event set value (EV1 to EV4) Bit 1: Lock only Event set value (EV1 to EV4) Bit 2: Lock only Set value (SV) Bit 3 to Bit 15: Unused Data 0: Unlock 1: Lock | |
| | | | [Decimal number: 0 to 7] | |
| 145 | Unused | _ | | _ |
| 146 | Backup memory state monitor | RO | O: The content of the backup memory does not coincide with that of the RAM. The content of the backup memory coincides with that of the RAM. | _ |
| 147 | Unused | | | _ |
| 148 | RS bias | R/W | -Input span to +Input span 3 | |
| 149 | RS digital filter | R/W | 0.0 to 100.0 seconds (0.0: Unused) | 0. |
| 150 | RS ratio | R/W | 0.001 to 9.999 | 1.0 |
| 151 | Heater break alarm 2 | R/W | Same as Heater break alarm 1 (HBA1) | 0. |
| 450 | (HBA2) set value | D.447 | set value | |
| 152 | Heater break determination point 2 | R/W | Same as Heater break determination point 1. | 30 |
| 153 | Heater melting | R/W | | 30 |
| 153 | determination point 2 | FC/VV | Same as Heater melting determination point 1. | 30 |
| 154 to 340 | Data of Engineering mode | and I In | | l |
| 341 | Integrated operating time | RO | 0 to 19999 hours | _ |
| | monitor | | | |
| 342 | Holding peak value ambient | RO | −10.0 to +100.0 °C | _ |
| 343 | temperature monitor Power feed forward input | RO | 0.0 to 160.0 % | |
| 343 | value monitor 5 | NO | Display in the percentage of the load voltage. | |
| 344 to 349 | Unused | _ | _ | _ |
| 350 | Startup tuning (ST) | R/W | O: ST unused 1: Execute once * 2: Execute always * When the Startup tuning is finished, the setting will automatically returns to "0: ST unused." O: ST unused." | (|
| 351 to 355 | Data of Engineering mode | 4 | | |
| 356 | Automatic temperature rise learning | R/W | Unused 1: Learning * When the Automatic temperature rise learning is finished, the setting will automatically returns to "0: Unused." | 1 |
| 357 to 359 | Data of Engineering mode | 4 | | |
| 360 to 499 | Unused | _ | | |
| 500 | Action mode selection | R/W | Bit data Bit 0: Address setting Data 0: Continuous setting 1: Free setting Bit 1 to Bit 15: Unused [Decimal number: 0 to 1] | (|
| 501 | Transmission wait time of controller communication | R/W | 0 to 100 ms | C |
| 502 | Type of connected controller | R/W | 0: FB100/400/900 Used with no changes to the factory set values. | C |
| 503 | Address setting of | R/W | 0 to 99 | 1 to |
| 50 : | connected controller | D.C. | 0: No connected controller | |
| 504 | State of connected controller | RO | Bit data Bit 0: Presence or absence of controller Bit 1: Presence or absence of abnormal response Bit 2 to Bit 15: Unused Data 0: Absence 1: Presence [Decimal number: 0 to 3] | _ |
| 505 | Automatic acquisition of | R/W | Do not execute the automatic acquisition | (|
| | controller address | | Execute the automatic acquisition * Automatically reverts to 0 after automatic | |
| | | | acquisition ends. | |
| 506 to 511 | Unused | _ | acquisition ends. | _ |

² When the heat-side or cool-side integral time is set to zero for Heat/Cool PID control, PD action will take

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RKC INSTRUMENT INC. The first edition: JAN. 2005 [IMQ00] The seventh edition: JAN. 2015 [IMQ00] PHONE: 03-3751-8799 (+81 3 3751 8789)

FAX: 03-3751-8585 (+81 3 3751 8585)

Website: http://www.rkcinst.com/ JAN. 2015

place for both heat-side and cool-side.

yaries with the setting of the Decimal point position selection.

Yaries with the setting of the Decimal point position selection.

For detail of data, refer to COM-JC [For FB100/FB400/FB900] Instruction Manual (IMR01Y06-ED).

Unused on the FB100.

[:] COM-JC data. For detail of data, refer to COM-JC [For FB100/FB400/FB900] Instruction Manual