## COM-JC Communication

 $\xlongequal[\text { All Rinhs Reseseded, Copyighte e2005, RKC NSTRTMMENT INC. }]{\text { IMMO1Y16-E }}$ 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 (IMR01YO6-ED). [For FB100/FB400/FB900] Instruction Manual (IIRO01Y06-EL)
The manual can be downloaded from the official RKC website:
htp://mww.rkcinst.com/english/manual_load.htm.

## 1. REMOTE INPUT/OUTPUT

Remote input (RX) and Remote output (RY) is ONOFF data
11 "n" it the table is he a address asisned tonte matser station by the station number seting.




 Example: When the COM-JC is set to 4 stations occupied 1 ime and its station number $n=(5-1) \times 2=8$ (Deeimal number) $\rightarrow 8$ (Hexadecimal number)




### 1.1 1 Station Occupied 1 Time

## - Remote input lis Data direction: com-JC

Data direction: COM-JC (Remote device station) $\rightarrow$ Master station (PLC)
Data capapity: 32 --bit

| Address | Communication ite |  | Data range | ( ${ }_{\text {Fectory }}^{\text {setualue }}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l\|l\|} \hline \text { Deviee } \\ \text { adares } \\ \text { ans } \\ \text { contoleler) } \end{array}$ |  | $\begin{aligned} & \text { o: of } \\ & 10: 0 N \end{aligned}$ |  |
|  |  |  |  | - |
|  |  | (Heater beak alamm (HBA) | 0: OFF |  |
|  |  |  |  |  |
| RXn4 |  | PIDIAT transter |  | - |
| RXn5 |  | Event1 state | Same as device address(1st controller) | - |
|  |  |  |  |  |
| ${ }_{\text {RXX }}^{\text {RX7 }}$ |  |  |  | - |
|  |  |  |  |  |
| ${ }_{\text {RXn9 }}$ | used |  |  |  |
| 双A |  |  |  |  |
| RXnC | Exended display completion |  | 0: OFF | - |
| RXnD | Extended seting compleion |  | 1: ON |  |
| ${ }_{\text {RXXE }}^{\text {RXnF }}$ | Hastware emor flag |  |  |  |
|  |  |  |  |
|  | Haruaie en |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |
| RX(n+1)0 | Resened |  |  | - |
| RX $\times(\underline{1+1) 7}$ |  |  |  |  |
| ${ }^{\text {R X }}$ ( +1$) 8^{8}$ | Initialize datap processing requestlag |  | 0: |  |
| RX(n+1) | Initialize data setting completion flag Error status flag |  | 1: 0 |  |
| RX(n+1)A |  |  |  | - |
|  | Eror staus thag |  | When communication error |  |
| RX( $n+1$ B | Remote ready |  | 0: Notready state |  |
|  |  |  | 1: Ready sale |  |
| RX( $n+1$ C ${ }^{\text {c }}$ | esened |  | - | - |
| RXX $\left(\frac{1}{}+1\right)$ |  |  |  |  |

- Remote output list

Data direction: Master station (PLC) $\rightarrow$ COM-JC (Remole device station)
Data capacity: 32 bbit


1.2 4 Station Occupied 1 Time




- Remote output list





## 2. REMOTE REGISTER

Remote registers (RWT, RWW) is numeric data.
I] "n" in the table is the adcress assigned to the master station by the station number seting.






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(1) Data direction of Remote registers (RWT, RWW)

11. When the Set value (SV) assinged to the Remote reisitet (RWW) as a fixed value is necessary. For details, refer to cOM-JC [For FB100iFB400/FB900] Quick
instruction Manual ( (impoiv11-ED).
2.1 1 Station Occupied 1 Time (1 Controller Assignment)

- Remote register (RWr) list

- $\begin{gathered}\text { Remote register (RWw) list } \\ \text { Data capacity: } 4 \text { words }\end{gathered}$

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

- Remote register (RWw) list



### 2.3 4 Stations Occupied 1 Time (8 Controller Assignment)

- Remote register (RWr) list

| Address | Communication items |  | Data range | $\underbrace{\text { a }}_{\substack{\text { Factory } \\ \text { setvalue }}}$ |
| :---: | :---: | :---: | :---: | :---: |
| RW\% | Device a adress (1st ontoler) |  | Input scale owio |  |
| RWm+1 | Device address (2nd control) |  | Imput cale e Iigh | - |
| RWW $\mathrm{m}+2$ | Device address (13rd contro |  |  |  |
| ${ }_{\text {RWM }}$ | Device address 4 4t contit |  |  |  |
| RWm+4 | Device address sthic contoio |  |  |  |
| RWm+5 | Device address (6ht controll |  |  |  |
| RWM+6 | Device address ( 7 Th contuoler) |  |  |  |
| RWM ${ }^{\text {P/7 }}$ | Device address (it controler) |  |  |  |
| RWm+8 | Device address (1st ontuoler) |  |  |  |
| $\mathrm{R}^{\text {RWmint }}$ A | Device adadresss (3id contotoler) |  | exiensoin num |  |
| RWW+B | Device a adress (4th ontoler) |  | display extension | - |
| RWrn+C | Device adaress stin co |  | RYn5 and from | - |
|  | Device adatess andirss (7Th con |  | RY(n+1) © ot RY(n+1)2. |  |
| W $\mathrm{m}+\mathrm{F}$ | evice address (8tic ontololer |  |  |  |

- Remote register (RWw) list

| Address | Communication items |  | Data range | Factory <br> setualue |
| :---: | :---: | :---: | :---: | :---: |
| RWWn | Device adrtess (ist contoler) | Iue (SV) | Sting initer low to |  |
|  | Device address (2nd controler) |  | Seting liniter righ |  |
| RWWm+2 | Device address (3id contoler) |  |  | 0 |
|  | Devee adatress (4f contioler) |  |  |  |
| RWWM+5 | Device address (6th ontroler) |  |  |  |
| ${ }_{\text {RWWnn+ }}$ | Deviece adrtess (Tht ontroler) |  |  |  |
| $\frac{\mathrm{RWW} \times+7}{}$ | Deviee adatress (8ht ocontoler) |  |  | 0 |
|  |  | ${ }^{\text {areasenenting }}$ | the |  |
| RWWm+A | Devie address (3id contolor) |  | decified by seting |  |
| ${ }_{\text {R }}^{\text {RWWMn+ }}$ | Device a addresss s sit cononti |  | exe | - |
| RWWm+ | Device a adress (6t on ontoler) |  | RYYB and fom | - |
| RW | evic |  |  |  |

2.4 4 Stations Occupied 1 Time ( 16 Controllers Assignment)

- Remote register (RWr) lis

| Address | Communication items |  | Data range | (eatory |
| :---: | :---: | :---: | :---: | :---: |
| RWm | Device address (Ist contoler) | For extended | con |  |
| $\frac{\mathrm{RW} \text { m+1 }}{}$ | Deive eadress (2nd controler) | area display | the extension l umie |  |
| RWm+2 | Devie address (3id contule) |  |  |  |
| $\frac{\mathrm{RWmm}}{}$ | Device addurssss (sth ontiontoler) |  | Smber from RYn | - |
| RWIm+5 | Device address (6th onontoler) |  | (en ${ }^{\text {and }}$ and fom |  |
| ${ }_{\text {RWM }}$ | Device addises (Thit contolile) |  |  |  |
|  | Device address (8th controler) |  |  |  |
|  | Devic adaress (9t controler) |  |  | - |
| $\stackrel{\text { RWmint }}{ }$ | Device addiess (11tit oontroler) |  |  |  |
| ${ }_{\text {RWmin }}$ | Devie address (12t controler) |  |  |  |
|  | Devie address (13nt controlen) |  |  | - |
| RWWrn+E | Device address (15th controler) |  |  |  |
| Wm+F | Device address (16th contoler) |  |  |  |

- Remote register ( RWw ) list

| Address | Communication | tems | Data range | ${ }_{\substack{\text { Factory } \\ \text { setualue } \\ \hline}}^{\text {a }}$ |
| :---: | :---: | :---: | :---: | :---: |
| RWwn | Device address (1st contoliler) | Fore exended | Data coressonoding to |  |
| $\frac{\mathrm{RWWm}+1}{}$ | Device address (2nd contolor) |  | the exension number |  |
| $\frac{\mathrm{R} W \mathrm{Mm}+2}{}$ | Deevce address (3id ontroler) |  | Seeting exension | - |
| RWWm+4 | Device a adtess ( 5 St control |  | number fom RYY6 |  |
|  | Device addises (6th contulier) |  |  |  |
|  |  |  |  |  |
| RWWm+8 | Device address (9th contoler) |  |  | - |
|  | Device address (10t contulor) |  |  |  |
| RWWm+B | Device address (12th contuloler) |  |  |  |
| $\frac{\text { RWWM+C }}{\text { RWMn+D }}$ | Device adtress (13t contolor) |  |  |  |
| RWMm+E | Device address (15th controler) |  |  |  |

-2 For Remote register address of 4 stations occupied 2 times, refer to COM-JC [For
FB100/FEB400/FB900] Instruction Manual (IMRO1YO6-ED)

## 3. SETTING OF EXTENSION NUMBER

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

- When read data
- Setting of extension number for display

Sn


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

- When write data
- Setting of extension number for setting

Sensionnumber for seting sets it wwith Remote output RYn6 to RynB, RY $(n+1) 8$ to RY $(n+1) A$


Example: When seting the setting extension number to the Set value ( SV ), " 3 ."
 Extension number 3:
Setvalue (SV) Fer For extension number of Memory area, refer to com-JC [For FB100/FB400/FB900]
Instruction Manual (IMRO1YO6-ED).

## 4. EXTENSION NUMBER LIST

A Atribute
 Reading data of unused seting items are factory set values. Unused seting items
may not tee witten. To do so will not cause an error however and data will be may yot
reeceled
Det.









${ }^{1}{ }^{1}$ Varies with he sesting of the Integralleriviative time decimal ponit tostion selection.




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