

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

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IMR01Y16-ET

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-ED).

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.

Table with 2 columns: Number of Occupied stations/Extended cyclic setting, Equation. Rows show 1 station occupied 1 time, 4 stations occupied 1 time, and 4 stations occupied 2 times.

\* 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 is "5," n = (5 - 1) x 2 = 8 (Decimal number) -> 8 (Hexadecimal number)

For station number 5: Remote inputs RXn0 to RX (n+7) F -> RX80 to RXFF
Remote outputs RYn0 to RY (n+7) F -> 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)
Data capacity: 32-bit

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists remote input settings for RXn0 to RX(n+1)F.

Remote output list

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

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists remote output settings for RYn0 to RYn5.

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists communication settings for RYn6 to RY(n+1)F.

1.2 4 Station Occupied 1 Time

Remote input list

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

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists remote input settings for RXn0 to RX(n+4)E.

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists communication settings for RX(n+4)F to RX(n+7)F.

Remote output list

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

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists remote output settings for RYn0 to RY(n+7)F.

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists communication settings for RY(n+7)8 to RY(n+7)F.

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

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.

Table with 2 columns: Number of Occupied stations/Extended cyclic setting, Equation. Rows show 1 station occupied 1 time, 4 stations occupied 1 time, and 4 stations occupied 2 times.

\* 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 is "5," n = (5 - 1) x 4 = 16 (Decimal) -> 10 (Hexadecimal)

For station number 5:

Remote registers RWm to RWm+F -> RWr10 to RWr1F
RWwn to RWwn+F -> Rww10 to Rww1F

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-ED).

2.1 1 Station Occupied 1 Time (1 Controller Assignment)

Remote register (RWr) list

Data capacity: 4 words

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists RWr settings for RWm, RWm+1, RWm+2, RWm+3.

Remote register (Rww) list

Data capacity: 4 words

Table with 4 columns: Address, Communication item, Data range, Factory set value. Lists Rww settings for RWwn, RWwn+1, RWwn+2, RWwn+3.

2.2 1 Station Occupied 1 Time (2 Controllers Assignment)

Remote register (RWr) list

Data capacity: 4 words

Table with 4 columns: Address, Communication items, Data range, Factory set value. Lists RWr settings for RWm, RWm+1, RWm+2, RWm+3.

Note 1 Data corresponding to the extension number specified by setting the display extension number from RYn6 to RYn5.

Remote register (Rww) list

Data capacity: 4 words

Table with 4 columns: Address, Communication items, Data range, Factory set value. Lists Rww settings for RWwn, RWwn+1, RWwn+2, RWwn+3.

Note 2 Data corresponding to the extension number specified by setting the setting extension number from RYn6 to RYn5.

