**MITSUBISHI**

PROGRAMMABLE CONTROLLERS

MELSEC-F

# Switching Between No Protocol Communication and Programming Protocol with the RS  Instruction; Supplementary Manual

When using the RS instruction in conjunction with the FX2N-232-BD or FX0N-232ADP, the user can switch between using no protocol communication and the programming tool (programming protocol) under the following conditions:

**(i) Programmable controller and version**

This function supports with version V2.01 or more of the FX2N series.

This material supplements the explanation in the FX Communication User's Manual (Chapters 6 and 9) for setting the communication format when the communication port is used as above.

## 1. Operating conditions and format set content

The programmable controller can change from using no protocol communication to programming protocol (and back) by manipulating the RS instruction and Register D8120 and shown below.

1) With the RS instruction On, move on of the data choices shown below into the Register D8120 to use no protocol communication.

*Table 1.1 :Set communication format (D8120)*

| Item | Content | | | |
|------|-------|-------|-------|-------|
| | H0086 | H0186 | H0286 | H0386 |
| Data length | 7Bit | | | |
| Parity bit | Even number (EVEN) | | | |
| Stop bit | 1Bit | | | |
| Baud rate (bps) | 9600bps | | | |
| Header | Off | On | Off | On |
| Terminator | Off | | On | |

2) To use the programming protocol, turn the RS instruction Off and move the data H0000 into the communication format Register D8120. When the programmable controller is taken out of RUN mode (by FX-PCS-Win Software or the front panes switch), complete editing and program downloads can be accomplished. On line changes can be performed with the programmable controller in Run Mode.

**FX**

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3) Example program

Example of changing the communication format (D8120) between H0086 and H0000. The programmable controller is first set for no protocol communication using RS instruction.
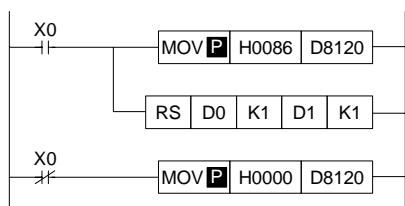


**Table 1.2 : Setting to communication format (D8120)**

| Item | Content |
|---|---|
| Data length | 7Bit |
| Parity bit | Even number (EVEN) |
| Stop bit | 1Bit |
| Baud rate (bps) | 9600bps |
| Header | None |
| Terminator | None |