TECHNICAL *BULLETIN*

[Title] Notice regarding addition of AnUCPU CC-Link Instructions   [Date of Issue] June '99
       of A Programming Manual (Dedicated Instruction Version)

[Relevant Models] A2UCPU, A2UCPU-S1, A3UCPU, A4UCPU,
                     A2ASCPU, A2ASCPU-S1, A2ASCPU-S30, A2USHCPU-S1

Thank you for purchasing Mitsubishi general-purpose programmable controller MELSEC-A Series.

CC-Link dedicated command shave been added for the AnU type CPU. Details are given below.

<div align="center">Whereas</div>

[Details]

1. Details
   CC-Link dedicated command shave been added for the AnU type CPU. Details are given below.

Command name	Function
RLPA	Sets network parameters.
RRPA	Sets automatic refresh parameters. *1
RIFR	Reads master station's automatic update buffer memory.
RITO	Writes to master station's automatic update buffer memory.
RIRD	Reads intelligent device station/local station buffer memory, or reads local station CPU device.
RIWT	Writes to intelligent device station/local station buffer memory, or writes to local station CPU device.
RISEND	Reads intelligent device station's buffer memory. (With handshake)
RIRCV	Writes to intelligent device station's buffer memory. (With handshake)

  *1: Refer to the Technical Bulletin [No. T08-0008] issued in Oct., 1998 for details.

*   Refer to the following manual for details on using the CC-Link dedicated commands.
      AnSHCPU/AnACPU/AnUCPU Programming Manual (Dedicated Command Section) IB-66251-D and above.

*   When using the CC-Link dedicated commands, use a master module with function version B and above.

2. Software versions compatible with CC-Link dedicated commands
   The CC-Link dedicated commands (eight commands) can be used with the following software version.

CPU type	Compatible software version
A2UCPU, A2UCPU-S1, A3UCPU, A4UCPU	Q (manufactured in July 1999) and above
A2ASCPU, A2ASCPU-S1	E (manufactured in July 1999) and above
A2ASCPU-S30	L (manufactured in July 1999) and above
A2USHCPU-S1	L (manufactured in July 1999) and above

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The date of manufacture and software version can be confirmed with the following methods.

(1) Confirming the date of manufacture.

   (a) For A2UCPU, A2UCPU-S1, A3UPCU, A4UCPU
      Confirm the year of manufactured on the rating nameplate attached on the right side of the CPU.

   (b) For A2ASCPU, A2ASCPU-S1, A2ASCPU-S30, A2USHCPU-S1
      Confirm the year of manufactured on the rating nameplate attached on the left side of the CPU.

(2) Confirming the software version

      Two labels indicating alphabetic characters are attached to the front of the CPU. The left label indicates the module's hardware version, and the right label indicates the software version.

3. New error codes for AnU type CPU
    The error codes that occur newly due to the addition of the CC-Link dedicated commands are shown below.

Error code (D9008)	Detailed error code (D9091)	Details and cause of error	Remedy
46	462	(1) A command was issued to a CC-Link module with function version under B. (2) A CC-Link dedicated command was issued to a CC-Link module for which the network parameters have not been set.	(1) Replace with a CC-Link module having function version B and above. (2) Set the parameters.
47	477	A link parameter error was detected by the CC-Link module.	(1) Write the parameters in again and check. (2) If the error appears again, there is a problem with the hardware. Consult your nearest System Service, sales office or branch office.
50	508	A CC-Link dedicated command was issued to three or more CC-Link modules.	The CC-Link dedicated command can be issued only to two or less CC-Link modules.
	509	The number of CC-Link dedicated command executed in one scan exceeded 10.	Set the number of CC-Link dedicated commands executed in one scan to 10 or less.

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4. Special relay (M) and special register (D) newly added for AnU type CPU
The special relay (M) and special register (D) newly added due to the addition of the CC-Link dedicated commands are shown below.

   (1) Special relay (M)

No.	Name	Details
M9080	CC-Link dedicated command execution BUSY function	This is turned ON and OFF according to the No. of simultaneous execution commands remaining in one scan of the RIRD/RIWT/RISEND/RIRCV command. OFF : Remaining No. of simultaneous execution commands 1 to 10 ON : Remaining No. of simultaneous execution commands 0 By setting M9080 as the execution command, the No. of simultaneous execution commands in one scan of the above command can be set not to exceed 10.

   (2) Special register (D)

No.	Name	Details
D9080	No. of execution CC-Link dedicated commands	The No. of simultaneous execution commands remaining in one scan of the RIRD/RIWT/RISEND/RIRCV command is stored. (AnUCPU) No. of remaining execution commands = 10 - No. of simultaneous execution commands (AnSHCPU) No. of remaining execution commands = 64 - No. of simultaneous execution commands