User's Manual

Model NC210 RS485/CC-Link Converter Profile 201 Procedure

IM 77P0C01-08E

This user's manual describes the explanation for Profile 201.

Before reading this Profile 201 Procedure, please read Profile Common Manual (IM 77P01C01-02E). Then check the instrument connection conditions, and check Mode or set Mode if necessary. This user's manual should be kept in safety place.



IM 77P01C01-08E 2nd Edition : Jun. 1, 2004

1. DATA MONITORING MODE

🛕 IMPORTANT

When word accessing to Write request flag (RY n4), pay attention to the other bits in (RY n0 to RY nF).

• Read-out data from power monitor (WH value, W value)

[PROCEDURE]

(1) Read out Normal connection of slave flag [RX (n+5)0 to RX (n+5)3] and Receive data valid flag (RX n3). And check that those are both [1].

(2) Read out the required data from Remote Register (RWr n+0 to RWw n+F).

Data type

Integrated Power (WH)	4 bytes none sign integer
Instantaneous Power (W)	4 bytes floating decimal point (IEEE)

- Write in data to power monitor (PT(VT) ratio ,CT ratio)
 - PT(VT) ratio values and CT ratio values can be changed.

💁 IMPORTANT

In case of writing in PT(VT) ratio and CT ratio, after End of writing flag (RX n4) changes [0] to [1], then write in Re-setting flag [RY (n+1)0 to RY (n+1)3] to [1].

[PROCEDURE]

- (1) Check that End of writing flag (RX n4) is [1].
- (2) Write-in data to the relative address (RWw m+0 to RWw m+F).
- (3) Set Write request flag (RY n4) from [0] to [1].
- (4) Wait until End of writing flag (RX n4) becomes from [0] to [1].
- (5) Write-in [0] to Write request flag (RY n4).(6) Set Re-setting flag [RY (n+1)0 to RY (n+1)3] from [0] to [1] during minimum 1 minute, and then
 - write in [0].

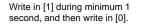
Write-in data to Remote Register (RWw m+0 to RWw m+F)

Write request flag (RY n4)

End of writing flag (RX n4)

Being write-in When End of writing flag

Re-setting flag [RY (n+1)0 to RY (n+1)3]



becomes [1], set Write

request flag to [0].

Data type

PT(VT) ratio	4 bytes floating decimal point (IEEE)
CT ratio	4 bytes floating decimal point (IEEE)

Write-in

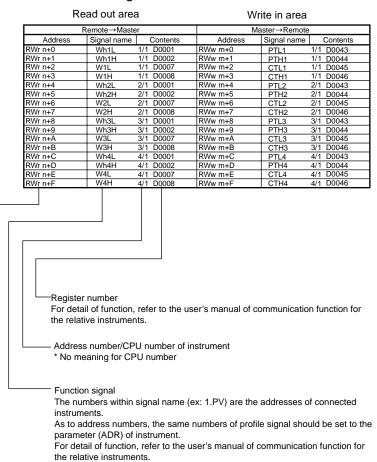
starts within 0 to 200ms

Contents of SIGNAL NAME used within Profile

Remote Register

<<PROFILE 201 for Data Monitoring Mode>>

Remote Register



RX n0 Data monitoring mode PY n0 Request for data monitoring RX n1 Parameter setting mode RY n1 Request for data monitoring RX n3 Receive data valid flag RY n4 Write request RX n4 End of writing RY n4 Write request RX n6 RY n6 RY n6 RX n6 RY n6 RY n6 RX n7 RY n6 RY n6 RX n8 RY n6 RY n6 RX n6 RY n6 RY n6 RX n7 RY n6 RY n6 RX n8 RY n6 RY n6 RX n9 RY n6 RY n6 RX n9 RY n6 RY n6 RX n11 RY n6 RY n11 RX n11 RY n6	Remote→Master		Master→Remote		
RX n1 Parameter setting mode RY n1 Request for parameter setting RX n3 Receive data valid flag RY n3 RX n4 End of writing RY n4 RX n6 NY n5 Write request RX n6 RY n6 RY n6 RX n7 RY n6 RY n6 RX n8 RY n6 RY n6 RX n8 RY n6 RY n6 RX n8 RY n6 RY n6 RX nA RY n6 RY n6 RX nA RY n6 RY n6 RX nF RY n1 Resulting 2/100072 RX n+10 RY (n+11) Re-setting 2/100072 RX (n+1)2 RY (n+11) Re-setting 3/100072 RX (n+1)3 Re-setting 2/100072 RX (n+1)4 RX (n+1)4 RY (n+1)5 Resetting 3/100072 RX (n+1)2 RY (n+1)3 Re-setting 3/100072 RX (n+1)3 Re-setting 3/100072 RX (n+1)4 RX (n+1)4 RY (n+1)7 Resetting 3/100072 RX (n+1)4 RY (n+1)1 Re-setting 3/100072		Signal name Contents			
RX n2 Review data valid flag RY n2 RX n4 End of writing RY n4 Write request RX n5 RY n6 Write request RX n6 RY n6 RY n6 RX n6 RY n6 RY n6 RX n7 RY n6 RY n6 RX n8 RY n1 RX n4 RX n4 RY n6 RY n6 RX n5 RY n6 RY n6 RX n6 RY n6 RY n6 RX n7 RY n6 RY n6 RX n8 RY n6 RY n6 RX n4 RY n1 Resetting 1/1 D0072 RX (n+1)1 RY (n+1)2 RY (n+1)2 RX (n+1)2 RY (n+1)1 Resetting 1/1 D0072 RX (n+1)3 RY (n+1)2 RY (n+1)2 RX (n+1)4 RY (n+1)2 RY (n+1)2 RX (n+1)5 RY (n+1)4 </td <td></td> <td></td> <td></td> <td>Request for data monitoring mode</td>				Request for data monitoring mode	
Rx n4 End of writing RY n3 Mereavest RX n5 End of writing RY n6 RY n5 RX n6 RY n6 RY n7 RY n7 RX n8 RY n7 RY n6 RY n7 RX n8 RY n7 RY n6 RY n6 RX n4 RY n4 RY n4 RY n4 RX n4 RY n6 RY n6 RY n6 RX n5 RY n6 RY n6 RY n6 RX n5 RY n7 RY n6 RY n6 RX n6 RY n7 RY n6 RY n7 RX n6 RY n7 RY n6 RY n7 RX n7 RY n7 RY n6 RY n7 RX n6 RY n7 RY n6 RY n7 RX n6 RY n6 RY n6 RY n6 RX		Parameter setting mode		Request for parameter setting mode	
RX n4 End of writing RY n4 Write request RX n6 RY n6 RY n6 RX n6 RY n6 RY n6 RX n7 RY n8 RY n9 RX n8 RY n9 RY n9 RX n8 RY n9 RY n9 RX n4 RY n6 RY n6 RX n7 RY n1 RY n6 RX n4 RY n1 Resetting 1/1 D0072 RX n+10 Resetting 1/1 D0072 RY (n+10) RX n+11 Resetting 1/1 D0072 RY (n+11) RX (n+1)0 RY (n+1)1 Resetting 1/1 D0072 RX (n+1)1 RY (n+10) Resetting 1/1 D0072 RX (n+1)2 RY (n+1)3 Resetting 1/1 D0072 RX (n+1)3 RY (n+1)4 RY (n+1)5 RX (n+1)4 RY (n+1)6 RY (n+1)1 RX (n+1)5 RY (n+1)6 RY (n+1)6 RX (n+1)6 RY (n+1)7 RY (n+1)6 <td></td> <td></td> <td>RY n2</td> <td></td>			RY n2		
RX n6 RY n5 RX n6 RY n6 RX n7 RY n7 RX n8 RY n7 RX n8 RY n8 RX n8 RY n4 RX n8 RY n6 RX n8 RY n6 RX n7 RY n6 RX n8 RY n6 RX n7 RY n6 RX n7 RY n6 RX n7 RY n6 RX n7 RY n7 RX n7 RY n6 RX n7 RY n6 RX n7 RY n7 RY n10 RY n11 RY n11 RY n11 RY n11 RY n11 RY	RX n3	Receive data valid flag	RY n3		
RX n6 RY n5 RX n6 RY n6 RX n7 RY n7 RX n8 RY n7 RX n8 RY n8 RX n8 RY n4 RX n8 RY n6 RX n8 RY n6 RX n7 RY n6 RX n8 RY n6 RX n7 RY n6 RX n7 RY n6 RX n7 RY n6 RX n7 RY n7 RX n7 RY n6 RX n7 RY n6 RX n7 RY n7 RY n10 RY n11 RY n11 RY n11 RY n11 RY n11 RY	RX n4	End of writing	RY n4	Write request	
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RX n7 PY n7 RX n8 PY n8 RX n9 PY n8 RX n4 PY n4 RX n5 PY n6 RX n6 PY n6 RX n7 PY n6 RX n6 PY n6 RX n7 PY n6 RX n6 PY n7 RX n7 PY n6 RX n6 PY n6 RX n7 PY n6 RX n4 PY n4 RX n4 <td></td> <td></td> <td></td> <td></td>					
RX nB PY nB RX nA PY nB RX nA PY nB RX nB PY nB RX nC RY nC RX nD RY nC RX nD RY nD RX nE RY nC RX nF RY nF RX (n+1)0 RY (n+1)0 RY (n+1)1 Re-setting 2/1 D0072 RX (n+1)2 Re-setting 2/1 D0072 RX (n+1)3 RY (n+1)2 RX (n+1)4 RY (n+1)2 RX (n+1)5 RY (n+1)2 RX (n+1)6 RY (n+1)2 RX (n+1)7 RY (n+1)8 RX (n+1)6 RY (n+1)6 RX (n+1)7 RY (n+1)8 RX (n+1)8 RY (n+1)7 RX (n+1)9 RY (n+1)7 RX (n+1)1 RY (n+1)8 RX (n+1)1 RY (n+1)1 RX (n+1)1 RY (n+1)2 RX (n+1)1 RY (n+1)6 RX (n+1)1 RY (n+1)6 RX (n+1)1 RY (n+1)6 RX (n+1)2 RY (n+1)6 RX (n+1)1 RY					
RX n9 PY n9 RX nA PY nA RX nB PY nA RX nD PY nC RX nD PY nC RX nD PY nC RX nF PY nC RX nF PY n1 RX nF PY n1 RX n+10 PY n1 RX (n+11) PY (n+1) RX (n+11) PY (n+1) RX (n+12 PY (n+1) RX (n+11 PY (n+1) RX (n+11 PY (n+1) RX (n+11) PY (n+1) RX (n+1) PY (n+2) RX (n+2)					
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Remote Input/Output

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Contents of Remote Register (Read out area) Contents of Re

	ea)	Contents of Remote Register	(Write in area)
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Signal name	Contents	Signal name	Contents
Wh1L	Lower two bytes of Integrated Power of address 1	PTL1	Lower two bytes of PT(VT) ratio of address 1
Wh1H	Upper two bytes of Integrated Power of address 1	PTH1	Upper two bytes of PT(VT) ratio of address 1
W1L	Lower two bytes of Instantaneous Power of address 1	CTL1	Lower two bytes of CT ratio of address 1
W1H	Upper two bytes of Instantaneous Power of address 1	CTH1	Upper two bytes of CT ratio of address 1
Wh2L	Lower two bytes of Integrated Power of address 2	PTL2	Lower two bytes of PT(VT) ratio of address 2
Wh2H	Upper two bytes of Integrated Power of address 2	PTH2	Upper two bytes of PT(VT) ratio of address 2
W2L	Lower two bytes of Instantaneous Power of address 2	CTL2	Lower two bytes of CT ratio of address 2
W2H	Upper two bytes of Instantaneous Power of address 2	CTH2	Upper two bytes of CT ratio of address 2
Wh3L	Lower two bytes of Integrated Power of address 3	PTL3	Lower two bytes of PT(VT) ratio of address 3
Wh3H	Upper two bytes of Integrated Power of address 3	PTH3	Upper two bytes of PT(VT) ratio of address 3
W3L	Lower two bytes of Instantaneous Power of address 3	CTL3	Lower two bytes of CT ratio of address 3
W3H	Upper two bytes of Instantaneous Power of address 3	CTH3	Upper two bytes of CT ratio of address 3
Wh4L	Lower two bytes of Integrated Power of address 4	PTL4	Lower two bytes of PT(VT) ratio of address 4
Wh4H	Upper two bytes of Integrated Power of address 4	PTH4	Upper two bytes of PT(VT) ratio of address 4
W4L	Lower two bytes of Instantaneous Power of address 4	CTL4	Lower two bytes of CT ratio of address 4
W4H	Upper two bytes of Instantaneous Power of address 4	CTH4	Upper two bytes of CT ratio of address 4

2. PARAMETER SETTING MODE

IMPORTANT

When word accessing to Read request flag (RY n5) and Write request flag (RY n4), pay attention to the other bits in (RY n0 to RY nF).

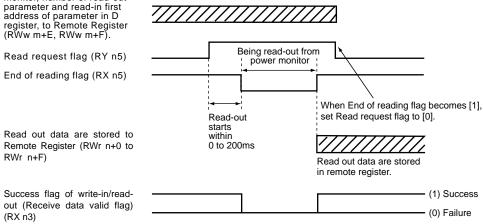
• Read-out a lump of power monitor parameter data

Maximum 14 of D registers can be read out at once by designating address (1 to 99) of D register in power monitor. The address of power monitor is the value that is designated in ADR of Set up Parameter. Take care that the addresses of power monitors do not duplicate each other.

[PROCEDURE]

- (1) Check that End of writing flag (RX n4) and End of reading flag (RX n5) are both [1].
- (2) Write in the first address of the read required sequential parameters to First parameter address (RWw m+E).
- (3) Write the power monitor address(ADR) in the upper bite of (ADR and number of parameter) (RWw m+F) and the parameter number to be read out in the lower bite.
- (4) Set Read request flag (RY n5) from [0] to [1].
- (5) During read out from power monitor, the End of reading tlag (RX n5) is [0]. Wait until End of reading flag (RX n5) becomes from [0] to [1].
- (6) Write-in [0] to Read request flag (RY n5).
- (7) The required number's data are stored in (RWr n+0 to RWr n+D).
- (Note) When the flags of Read request flag (RY n5) and Write request flag (RY n4) are set [1] at the same time, the Read request flag has priority.

Write address of power monitor, number of read-out parameter and read-in first address of parameter in D register, to Remote Register (RWw m+E, RWw m+F).

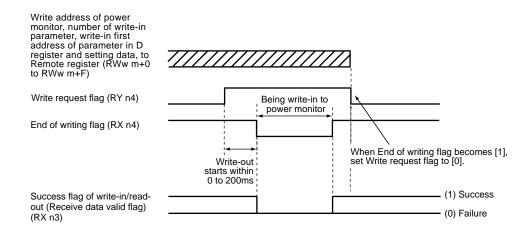


• Write-in a lump of parameter data to power monitor

Maximum 14 of D registers can be written in at once by designating address (1 to 99) of D register in power monitor. The address of power monitor is the value that is designated in ADR of Set up parameter. Take care that the addresses of power monitors do not duplicate each other.

IPROCEDURE1

- (1) Check that End of writing flag (RX n4) and End of reading flag (RX n5) are both [1].
- (2) Write in the first address of the write required sequential parameters to First parameter address (RWw m+E).
- (3) Write the power monitor address in the upper bite of (ADR and number of parameter) (RWw m+F) and the parameter number to be write-in in the lower bite.
- (4) Write in the designed number of data in (RWw m+0 to RWw m+D).
- (5) Set Write request flag (RY n4) from [0] to [1].
- (6) During write in data to power monitor, the End of writing flag (RX n4) is [0]. Wait until End of writing flag (RX n4) becomes from [0] to [1].
- (7) Write-in [0] to Read request flag (RY n4).



Remote Register

Read out area			Write in area		
	Remote→Master			Master→Remote	
RWr Address	Signal name	Contents	RWw Address	Signal name	Contents
RWrn+0	First parameter +0	Read out data	RWw m+0	First parameter +0	Setting data
RWrn+1	First parameter +1	Read out data	RWwm+1	First parameter +1	Setting data
RWrn+2	First parameter +2	Read out data	RWw m+2	First parameter +2	Setting data
RWrn+3	First parameter +3	Read out data	RWw m+3	First parameter +3	Setting data
RWrn+4	First parameter +4	Read out data	RWw m+4	First parameter +4	Setting data
RWrn+5	First parameter +5	Read out data	RWw m+5	First parameter +5	Setting data
RWrn+6	First parameter +6	Read out data	RWw m+6	First parameter +6	Setting data
RWrn+7	First parameter +7	Read out data	RWwm+7	First parameter +7	Setting data
RWrn+8	First parameter +8	Read out data	RWw m+8	First parameter +8	Setting data
RWrn+9	First parameter +9	Read out data	RWw m+9	First parameter +9	Setting data
RWrn+A	First parameter +10	Read out data	RWw m+A	First parameter +10	Setting data
RWrn+B	First parameter +11	Read out data	RWwm+B	First parameter +11	Setting data
RWrn+C	First parameter +12	Read out data	RWw m+C	First parameter +12	Setting data
RWrn+D	First parameter +13	Read out data	RWw m+D	First parameter +13	Setting data
RWrn+E	First parameter address		RWwm+E	First parameter address	
RWrn+F	ADR and number of para	meters	RWw m+F ADR and number of parameters		ameters

<< PROFILE PARAMETER SETTING MODE >>

Exmple

In case of write in data to five registers of D register from D0043 to D0046 of address2 power monitor:

• First parameter address: Write in [002B](HEX).

• ADR and number of parameters: Write in [0204](HEX).

(Upper one byte: Address number, Lower one byte: number of parameter)

Remote Input/Output

	Remote→Master	Master→Remote		
Address	Signal name Contents	Address	Signal name Contents	
RX n0	Data monitoring mode	RY n0	Request for data monitoring mode	
RX n1	Parameter setting mode	RY n1	Request for parameter setting mode	
RX n2	Farameter setting mode	RY n2	Request for parameter setting mot	
RX n3	Read/Write data valid flag	RY n3		
			Write request	
RX n4	End of writing End of Reading	RY n4		
RX n5 RX n6	Lind of Reading	RY n5 RY n6	Read request	
RX n7		RY n7		
RX n8		RY n8		
RX n9		RY n9		
RX nA RX nB		RY nA RY nB		
RX nC		RYnC	-	
RX nD		RYnD		
RX nE		RY nE		
RX nF		RY nF		
RX (n+1)0		RY (n+1)0		
RX (n+1)F		RY (n+1)F		
RX (n+2)0		RY (n+2)0		
:		:		
:		:		
RX (n+2)F		RY (n+2)F		
RX (n+3)0		RY (n+3)0		
:		:		
:		:		
RX (n+3)F		RY (n+3)F		
RX (n+4)0		RY (n+4)0		
:		:		
:		:		
RX (n+4)F		RY (n+4)F		
RX (n+5)0	Normal connection of slave 01	RY (n+5)0		
RX (n+5)1	Normal connection of slave 02	RY (n+5)1		
RX (n+5)2	Normal connection of slave 03	RY (n+5)2		
RX (n+5)3	Normal connection of slave 04	RY (n+5)3		
RX (n+5)4		RY (n+5)4		
RX (n+5)5		RY (n+5)5		
RX (n+5)6		RY (n+5)6		
RX (n+5)7		RY (n+5)7		
RX (n+5)8		RY (n+5)8		
RX (n+5)9		RY (n+5)9		
RX (n+5)A		RY (n+5)A		
RX (n+5)B		RY (n+5)B		
RX (n+5)C		RY (n+5)C		
RX (n+5)D		RY (n+5)D		
RX (n+5)E		RY (n+5)E	1	
RX (n+5)F		RY (n+5)F	1	
RX (n+6)0	Reserved	RY (n+6)0	Reserved	
		:	1	
RX (n+6)F	Reserved	RY (n+6) F	Reserved	
RX (n+7)0	Reserved	RY (n+7)0	Reserved	
	Reserveu		1000.000	
			+	
	Reserved	RY (n+7) 8	Reserved	
RX (n+7)8			Reserved	
RX (n+7)9	Reserved	RY (n+7) 9		
RX (n+7)A	Reserved	RY (n+7)A	Reserved	
RX (n+7)B	Remote ready flag	RY (n+7)B	Reserved	
RX (n+7)C	Reserved	RY (n+7)C	Reserved	
RX (n+7)D	Reserved	RY (n+7)D	Reserved	
RX (n+7)E	Reserved	RY (n+7)E	Reserved	
		RY (n+7)F	Reserved	

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