# Mitsubishi A Series/J71UC24 Computer Link

## **HMI Factory Setting:**

Baud rate: 9600, 8, ODD, 1

Controller Station Number: 0 (Note 1)

Control Area / Status Area: D0/D10

#### Connection

### a. RS-232 (DOP-A/AE/AS, DOP-B Series)

P/C/·//	DOP Series	PLC1.II	Со	ntroller	PLC1:
9 pin D-	sub male (	(RS-232)			
DVD	φι <sup>Ο</sup> Λ	P/C/."	Prc.,	(2) TVD	br <sub>Cy</sub> .
RXD	(2)			(3) TXD	
br <sub>C.1.,,</sub>					PrC1.
TXD	(3)			(2) RXD	
PLC1.it					PLC1:
GNE	(5)			(5) SG	
PLC1.II					PLC1:
				(1) CD	
PLC1.it			6 C1.iv		P/C/
,				(4) DSR[DF	₹]
PLC1.II			C1.11		PLC1:
				(6) DTR[EF	R]
PLC1.ii					PLC1:
				/3\ CTC	

### b. RS-422 (DOP-A/AE Series)

DOP Series	Controller		~ CV.)
9 pin D-sub male (RS-422)			PL
RXD- (1)	PLCT	SDB	PLC13
RXD+ (2)	PLCVIII	SDA	P/C <sup>1,3</sup>
TXD+ (3)	PLCVII	RDA	P/C13

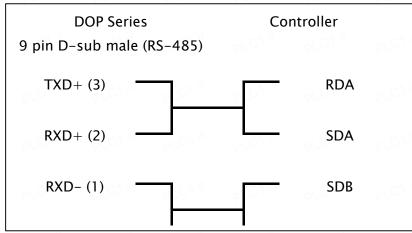
## c. RS-422 (DOP-AS35/AS38/AS57 Series)

DOP Series	C4.jt	Controller		PLC1.
9 pin D-sub male (RS-4	422)			
R-	C/ ://	PLC1.ii	SDB	
R+	CV.ii	P/C1 <sup>W</sup>	SDA	
T+	C/.i/	P/C1.iii	RDA	
pLC1.ir pLC1.ir pl	C/ ;ii	PLC1.ir	PLC1.ir	PLC1.

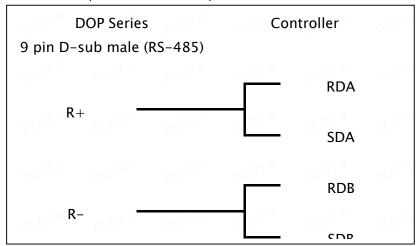
### d. RS-422 (DOP-B Series)

DOP Series	Controller		bro.
9 pin D-sub male (RS-422)			PLC1.
RXD- (9)	PLC1.ii	SDB	PLC1
RXD+ (4)	PLC1iii	SDA	PLC13
TXD+ (1)	PLC1.if	RDA	PLC1.

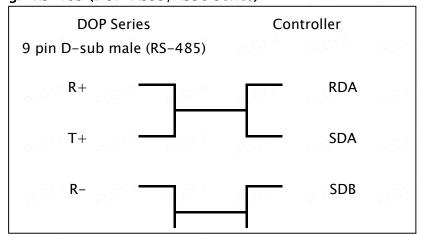
## e. RS-485 (DOP-A/AE Series)



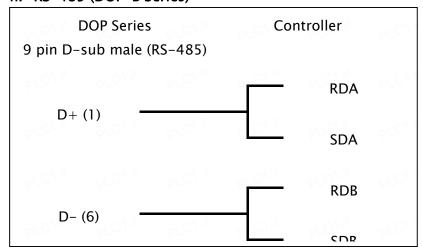
### f. RS-485 (DOP-AS57 Series)



## g. RS-485 (DOP-AS35/AS38 Series)



#### h. RS-485 (DOP-B Series)



# Definition of PLC Read/Write Address

## a. Registers

Type	Format	Read/Write Range	Data	Note
,,	Word No. (n)	, ,	Length	
Input	Xn	X0 - X7FF	Word	<u>3</u>
Output	Yn	Y0 - X7FF	Word	<u>3</u>
Link Relay	<b>B</b> n	BO - BFFF	Word	<u>3</u>
Internal Relay	<b>M</b> n	<b>M</b> 0 - <b>M</b> 8176	Word	<u>3</u>
Special Internal Relay	SMn	<b>SM</b> 9000 - <b>SM</b> 9240	Word	<u>4</u>
Latch Relay	Ln	L0 - L2032	Word	<u>3</u>
Annunciator	Fn - C	F0 - F2032	Word	<u>3</u>
Timer Value	TNn	<b>TN</b> 0 - <b>TN</b> 999	Word	
Counter Value	CNn	CN0 - CN999	Word	C/.,,
Data Register	Dn	<b>D</b> 0 - <b>D</b> 8191	Word	
Special Data Register	SDn	<b>SD</b> 9000 - <b>SD</b> 9255	Word	C/.,,
File Register	Rn	<b>R</b> 0 - <b>R</b> 8191	Word	
Link Register	<b>W</b> n	W0 – WFFF	Word	C/.,,

#### b. Contacts

- Pr- Pr-	Format	2 1000	Note
Type	Bit No. (b)	Read/Write Range	
Input	Xb	X0 - X7FF	
Output	Yb	Y0 - Y7FF	- C7.W
Link Relay	<b>B</b> b	BO - BFFF	
Internal Relay	<b>M</b> b	<b>M</b> 0 - <b>M</b> 8191	~ C7.1/
Special Internal Relay	<b>SM</b> b	<b>SM</b> 9000 - <b>SM</b> 9255	
Latch Relay	Lb	L0 - L2047	- C1:N
Annunciator	<b>F</b> b	F0 - F2047	
Timer Contact	<b>TS</b> b	TS0 - TS999	- (C1.)(
Timer Coil	<b>TC</b> b	TC0 - TC999	
Counter Contact	<b>CS</b> b	<b>CS</b> 0 - <b>CS</b> 999	CV.W
Counter Coil	CCb	CC0 - CC999	

# NOTE

a. The mode switch setting of AJ71UC24-R2 communication is 4 (Form 4), station number can only be 0.

- b. The mode switch setting of AJ71UC24–R4 communication is 8 (Form 4), station number can be determined by switch setting X1/X10.
- After PLC communication mode switch is set, please re-activate the PLC. The protocol is CheckSum and PLC Mode is Form 4. For switch setting of other communication parameter, please refers to Mitsubishi user manual.
- 2) Parameter is set by the programming software GX Developer, please refers to PLC user manual for set up instruction.
- 3) Device address should be the multiple of 16.
- 4) Device address should be the multiple of 16 plus 9000.
- 5) When certain Output Relay (**Y**) and Special Data Relay (**SM**) are set as 1, PLC will stop function. Please RESET the PLC for re-activation.
- Though the default setting is in short communication address, this protocol supports both Short/ Long communication address. If only certain type of address is suitable to your device, address format can be changed in special parameter under the setting menu.

