Mitsubishi FX Series PLC(Note 1) / Mitsubishi FX2N PLC(Note 2)

HMI Factory Setting:

Baud rate: 9600, 7, Even, 1

Controller Station Number: 0 (no PLC station number in protocol, therefore, only 1(HMI) to 1(PLC) communication is allowed.)

Control Area / Status Area: D0 / D10

Connection

a. RS-422 (DOP-A/AE Series)

DOP Series 9 pin D-SUB male (RS-422)		Controller 8 pin Mini DIN male (RS-422)
RXD+ (2)	———	(7) TXD+
RXD- (1)	———	(4) TXD-
TXD+ (3)	———	(2) RXD+
TXD- (4)	———	(1) RXD-
GND (5)	———	(3) SG

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

DOP Series 9 pin D-SUB male (RS-422)		Controller 8 pin Mini DIN male (RS-422)
R+	———	(7) TXD+
R-	———	(4) TXD-
T+	———	(2) RXD+
T-	———	(1) RXD-
GND	———	(3) SG

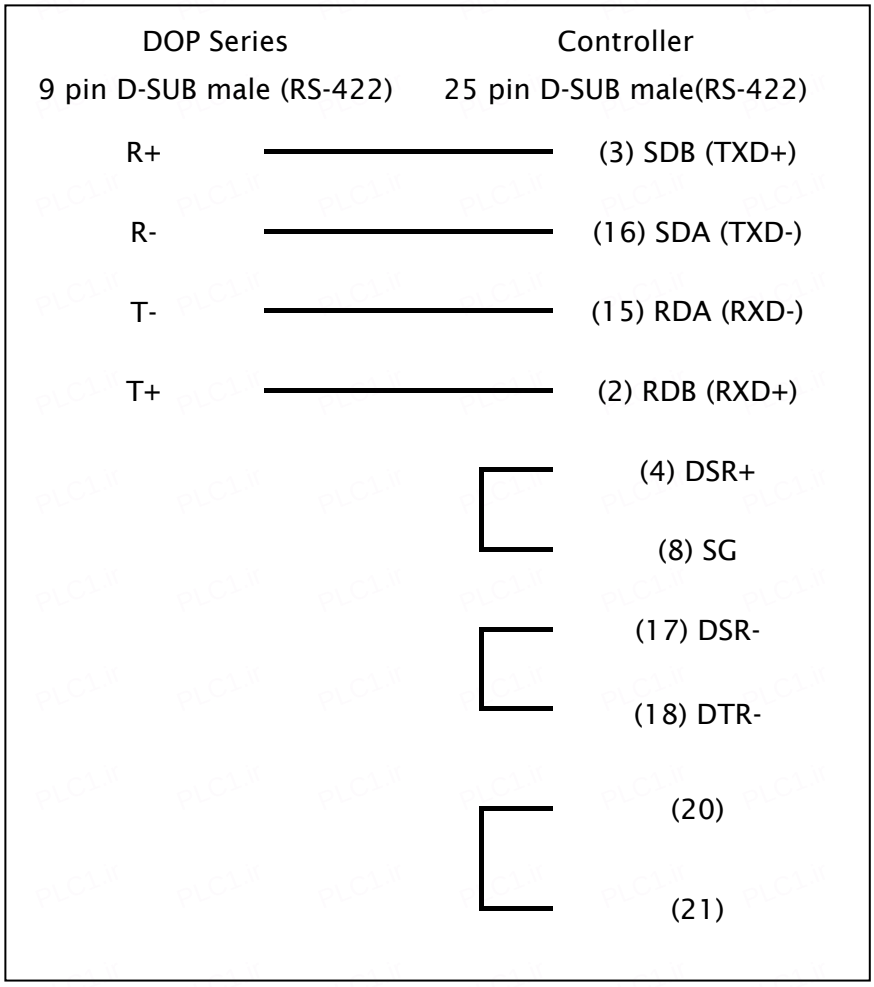
c. S-422 (DOP-B Series)

DOP Series 9 pin D-SUB male (RS-422)		Controller 8 pin Mini DIN male (RS-422)
RXD+ (4)	———	(7) TXD+
RXD- (9)	———	(4) TXD-
TXD+ (1)	———	(2) RXD+
TXD- (6)	———	(1) RXD-
GND (5)	———	(3) SG

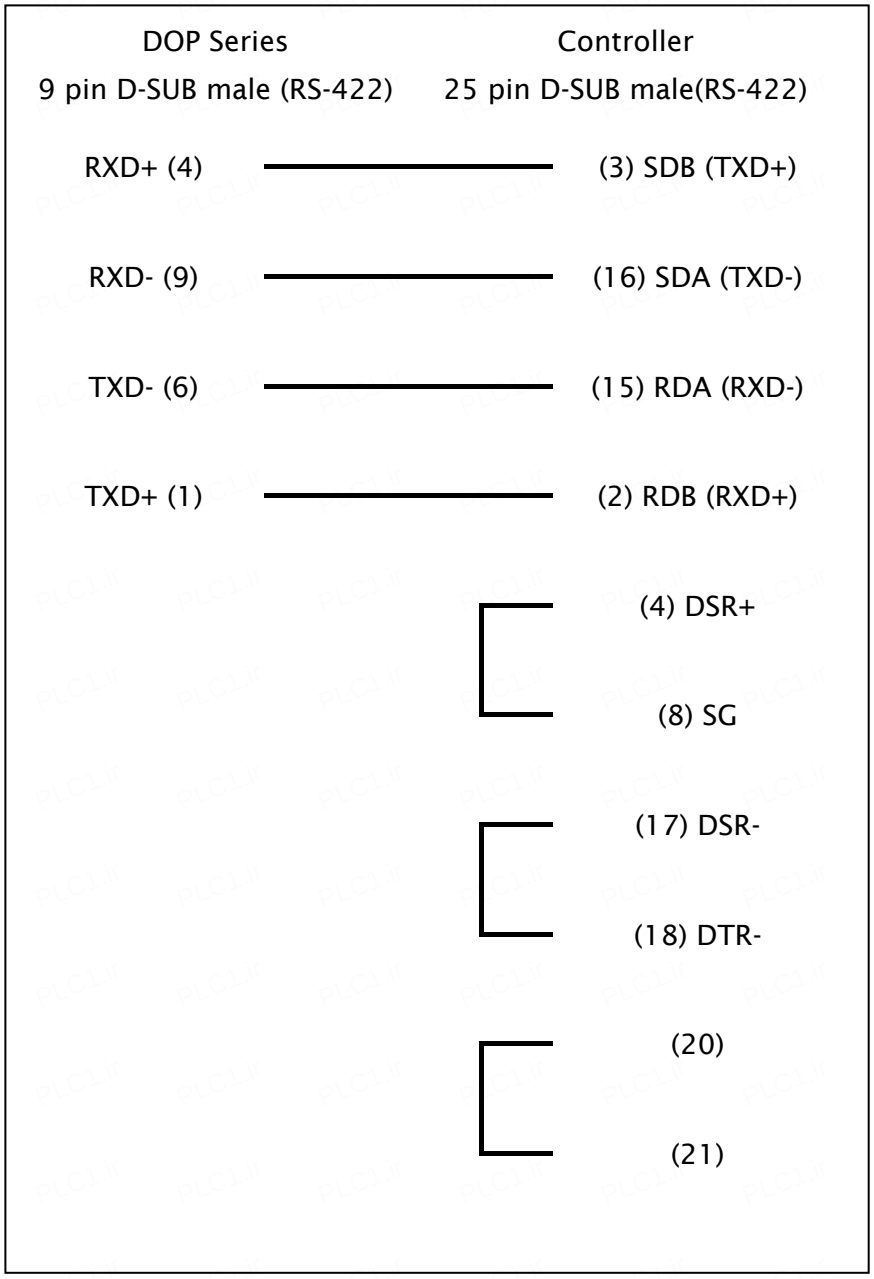
d. RS-422 (DOP-A/AE Series)

DOP Series 9 pin D-SUB male (RS-422)		Controller 25 pin D-SUB male(RS-422)
RXD+ (2)	———	(3) SDB (TXD+)
RXD- (1)	———	(16) SDA (TXD-)
TXD- (4)	———	(15) RDA (RXD-)
TXD+ (3)	———	(2) RDB (RXD+)
		(4) DSR+
		(8) SG
		(17) DSR-
		(18) DTR-
		(20)
		(21)

e. RS-422 (DOP-AS57 Series)



f. RS-422 (DOP-B Series)



Definition of PLC Read/Write Address

a. Registers

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Auxiliary Relay	Mn	M0 – M3064	Byte	3
Special Auxiliary Relay	Mn	M8000 – M8248	Byte	3
Status Relay	Sn	S0 – S992	Byte	3
Input Relay	Xn	X0 – X360	Byte	Octal, 3
Output Relay	Yn	Y0 – Y360	Byte	Octal, 3
Timer PV	Tn	T0 – T255	Word	
16-位元 Counter PV	Cn	C0 – C199	Word	
32-位元 Counter PV	Cn	C200 – C255	Double Word	
Data Register	Dn	D0 – D7999	Word	
Special Data Register	Dn	D8000 – D8255	Word	

b. Contacts

Type	Format	Read/Write Range	Note
	Bit No. (b)		
Auxiliary Relay	Mb	M0 – M3071	
Special Auxiliary Relay	Mb	M8000 – M8255	
Status Relay	Sb	S0 – S999	
Input Relay	Xb	X0 – X377	Octal
Output Relay	Yb	Y0 – Y377	Octal
Timer Flag	Tb	T0 – T255	
Counter Flag	Cb	C0 – C255	

NOTE

1) If connecting to Mitsubishi FX series PLC, the user can only use FX series communication protocol.
2) If connecting to Mitsubishi FX1N/FX2N series PLC, the user can only use FX2N communication protocol.
3) The device address must be the multiple of 8.