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

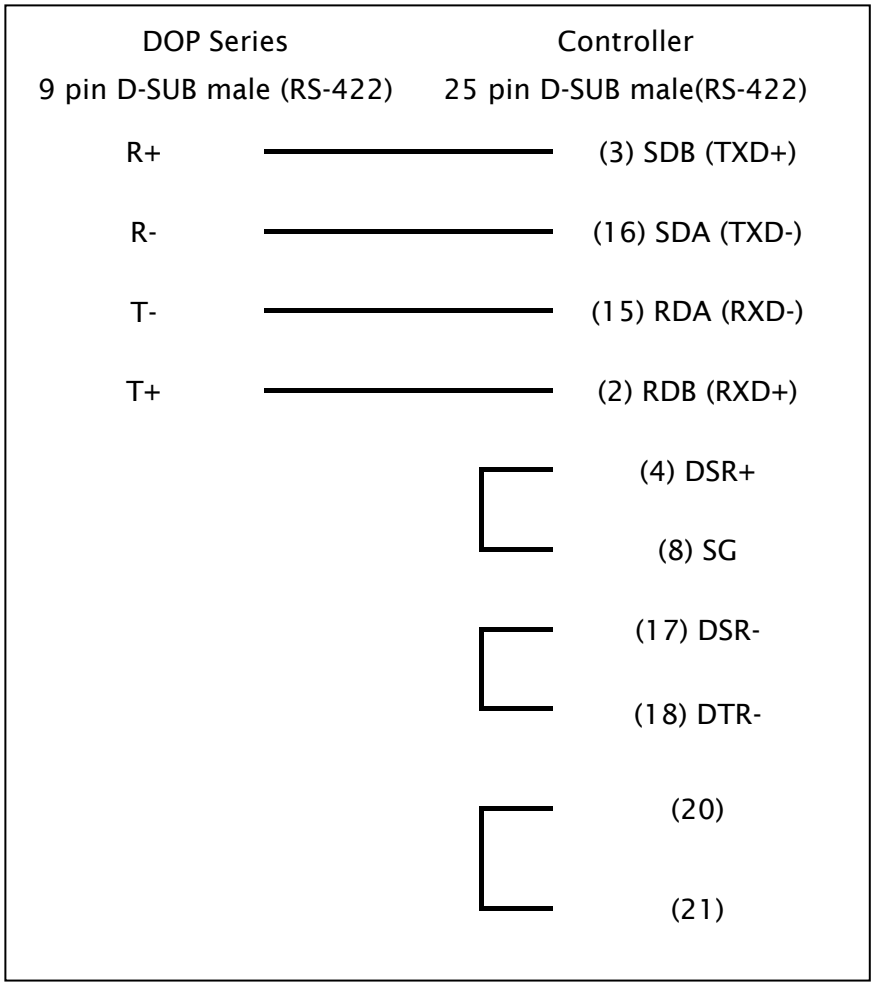
c. S-422 (DOP-B Series)

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

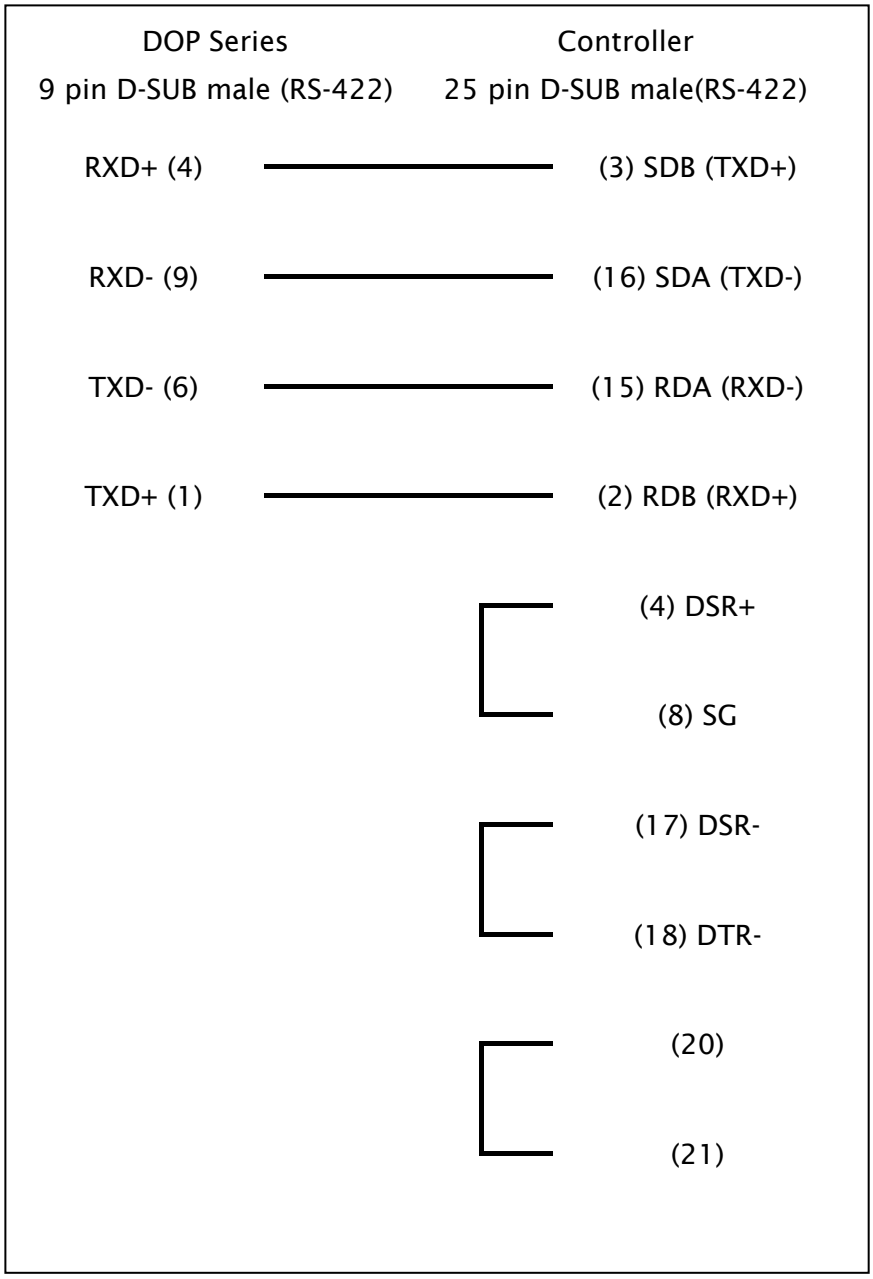
d. RS-422 (DOP-A/AE Series)

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	**M**n	**M**0 – **M**3064	Byte	3
Special Auxiliary Relay	**M**n	**M**8000 – **M**8248	Byte	3
Status Relay	**S**n	**S**0 – **S**992	Byte	3
Input Relay	**X**n	**X**0 – **X**360	Byte	Octal, 3
Output Relay	**Y**n	**Y**0 – **Y**360	Byte	Octal, 3
Timer PV	**T**n	**T**0 – **T**255	Word	
16-位元 Counter PV	**C**n	**C**0 – **C**199	Word	
32-位元 Counter PV	**C**n	**C**200 – **C**255	Double Word	
Data Register	**D**n	**D**0 – **D**7999	Word	
Special Data Register	**D**n	**D**8000 – **D**8255	Word	

b. Contacts

Type	Format	Read/Write Range	Note
	Bit No. (b)		
Auxiliary Relay	**M**b	**M**0 – **M**3071	
Special Auxiliary Relay	**M**b	**M**8000 – **M**8255	
Status Relay	**S**b	**S**0 – **S**999	
Input Relay	**X**b	**X**0 – **X**377	Octal
Output Relay	**Y**b	**Y**0 – **Y**377	Octal
Timer Flag	**T**b	**T**0 – **T**255	
Counter Flag	**C**b	**C**0 – **C**255	

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.