Mitsubishi Q Series Computer Link
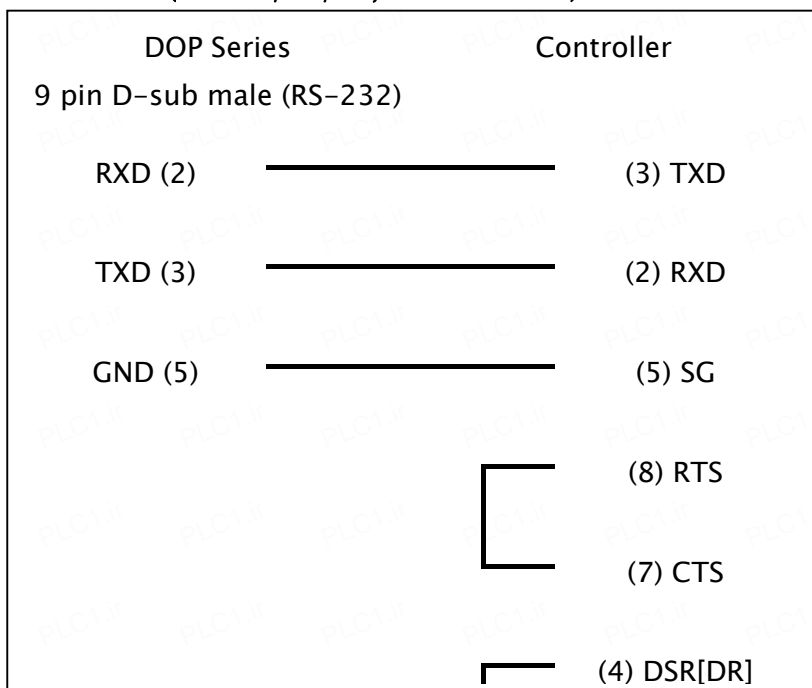
HMI Factory Setting:

Baud rate: 19200, 8, None, 1

Controller Station Number: 0

Control Area / Status Area: D0 / D10

Connection

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

DOP Series	Controller
9 pin D-sub male (RS-232)	
RXD (2) ———————	(3) TXD
TXD (3) ———————	(2) RXD
GND (5) ———————	(5) SG
	(8) RTS
	(7) CTS
	(4) DSR[DR]

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

DOP Series	Controller
9 pin D-sub male (RS-422)	
RXD– (1) ———————————	SDB (2)
RXD+ (2) ———————————	SDA (1)
TXD+ (3) ———————————	RDA (3)
TXD– (4) ———————————	RDB (4)

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

DOP Series	Controller
9 pin D-sub male (RS-422)	
R– ———————————	SDB (2)
R+ ———————————	SDA (1)
T+ ———————————	RDA (3)
T– ———————————	RDB (4)

d. RS-422 (DOP-B Series)

DOP Series	Controller
9 pin D-sub male (RS-422)	
RXD– (9) ———————————	SDB (2)
RXD+ (4) ———————————	SDA (1)
TXD+ (1) ———————————	RDA (3)
TXD– (6) ———————————	RDB (4)

Definition of PLC Read/Write Address

a. Registers

Type	Format Word No. (n)	Read/Write Range	Data Length	Note
Input	Xn	X0 – X1FF0	Word	Hexadecimal, 2
Output	Yn	Y0 – Y1FF0	Word	Hexadecimal, 2
Internal Relay	Mn	M0 – M8176	Word	2
Special Internal Relay	Mn	M9000 – M9240	Word	3
Link Relay	Bn	B0 – B1FF0	Word	Hexadecimal, 2
Annunciator	Fn	F0 – F2032	Word	2
Timer Value	TNn	TN0 – TN2047	Word	
Counter Value	CNn	CN0 – CN2047	Word	
Data Register	Dn	D0 – D8191	Word	
Special Data Register	Dn	D9000 – D9255	Word	
Link Register	Wn	W0 – W1FFF	Word	Hexadecimal

b. Contacts

Type	Format Bit No. (b)	Read/Write Range	Note
Input	Xb	X0 – X1FFF	Hexadecimal
Output	Yb	Y0 – Y1FFF	Hexadecimal
Internal Relay	Mb	M0 – M8191	
Special Internal Relay	Mb	M9000 – M9255	
Link Relay	Bb	B0 – B1FFF	Hexadecimal
Annunciator	Fb	F0 – F2047	
Timer Contact	TSb	TS0 – TS2047	
Timer Coil	TCb	TC0 – TC2047	
Counter Contact	CSb	CS0 – CS2047	
Counter Coil	CCb	CC0 – CC2047	

NOTE

1) Before using this communication protocol, the user needs to set communication module via GX Developer programming tools. For more detailed information regarding the setting method, please refers to Mitsubishi PLC User Manual.

2) The device address must be the multiple of 16.

3) The device address must be the multiple of 16+9000.