

Mitsubishi Q Series Computer Link (3C Frame)

HMI Factory Setting:

Baud rate: 19200, 8, Odd, 1

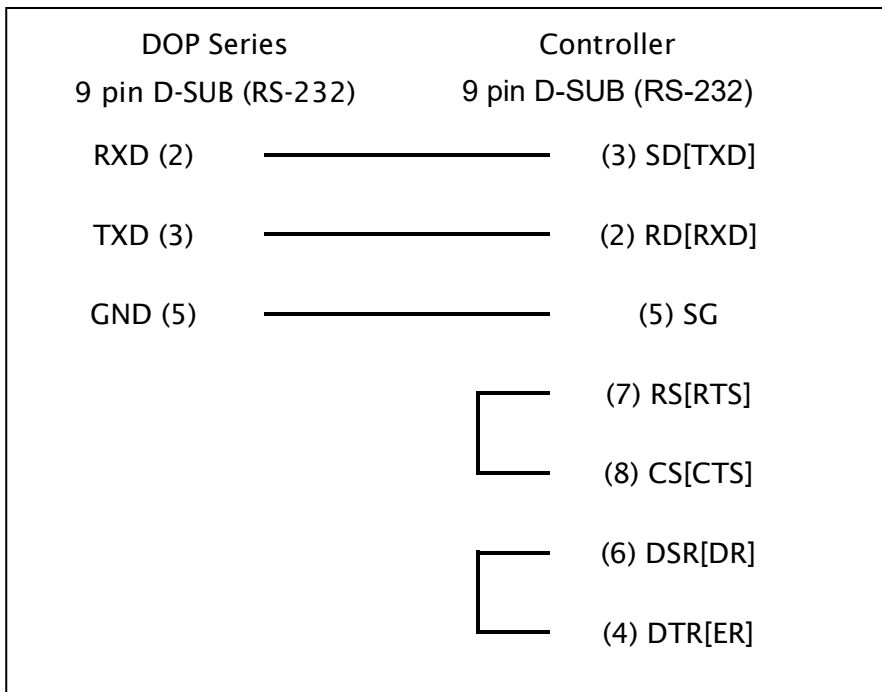
Controller Station Number: 0

Control Area / Status Area: D0 / D10

Applicable models: DOP-B / DOP-W / DOP-H / HMC series ∙ DOP-100

Connection

a. RS-232



b. RS-422

DOP Series		Controller
9 pin D-SUB (RS-422)		QJ71C24N, CH2
RXD+ (4)	—————	(1) SDA
RXD- (9)	—————	(3) SDB
TXD+ (1)	—————	(5) RDA
TXD- (6)	—————	(7) RDB
GND (5)	—————	(2) SG

c. RS-485

DOP Series		Controller
9 pin D-SUB (RS-485)		QJ71C24N, CH2
TXD+ (1)	————— ┌─── │ └───	(1) SDA (5) RDA
TXD- (6)	————— ┌─── │ └───	(3) SDB (7) RDB
GND (5)	—————	(2) SG

Definition of PLC Read/Write Address

a. Registers

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Input	X-n	X-0 - X-1FFF	Word	Hexadecimal, 2
Output	Y-n	Y-0 - Y-1FFF	Word	Hexadecimal,

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
				2
Direct Input	DX-n	DX-0 - DX-1FFF	Word	Hexadecimal, 2
Direct Output	DY-n	DY-0 - DY-1FFF	Word	Hexadecimal, 2
Latch Relay	L-n	L-0 - L-32767	Word	2
Annunciator	F-n	F-0 - F-32767	Word	2
Edge Relay	V-n	V-0 - V-32767	Word	2
Step Relay	S-n	S-0 - S-8191	Word	2
Link Relay	B-n	B-0 - B-7FFF	Word	Hexadecimal, 2
Special Link Relay	SB-n	SB-0 - SB-7FF	Word	Hexadecimal, 2
Internal Relay	M-n	M-0 - M-32767	Word	2
Special Internal Relay	SM-n	SM-0 - SM-2047	Word	2
Timer Value	TN-n	TN-0 - TN-23087	Word	
Retentive Timer Value	SN-n	SN-0 - SN-23087	Word	
Counter Value	CN-n	CN-0 - CN-23087	Word	
Data Register	D-n	D-0 - D-45055	Word	
Special Data Register	SD-n	SD-0 - SD-2047	Word	
Index Register	Z-n	Z-0 - Z-19	Word	
File Register	R-n	R-0 - R-32767	Word	
File Register	ZR-n	ZR-0 - ZR-65535	Word	4
		ZR-0 - ZR-FFFF	Word	Hexadecimal, 4
Link Register	W-n	W-0 - W-657F	Word	Hexadecimal
Special Link Register	SW-n	SW-0 - SW-7FF	Word	Hexadecimal

b. Contacts

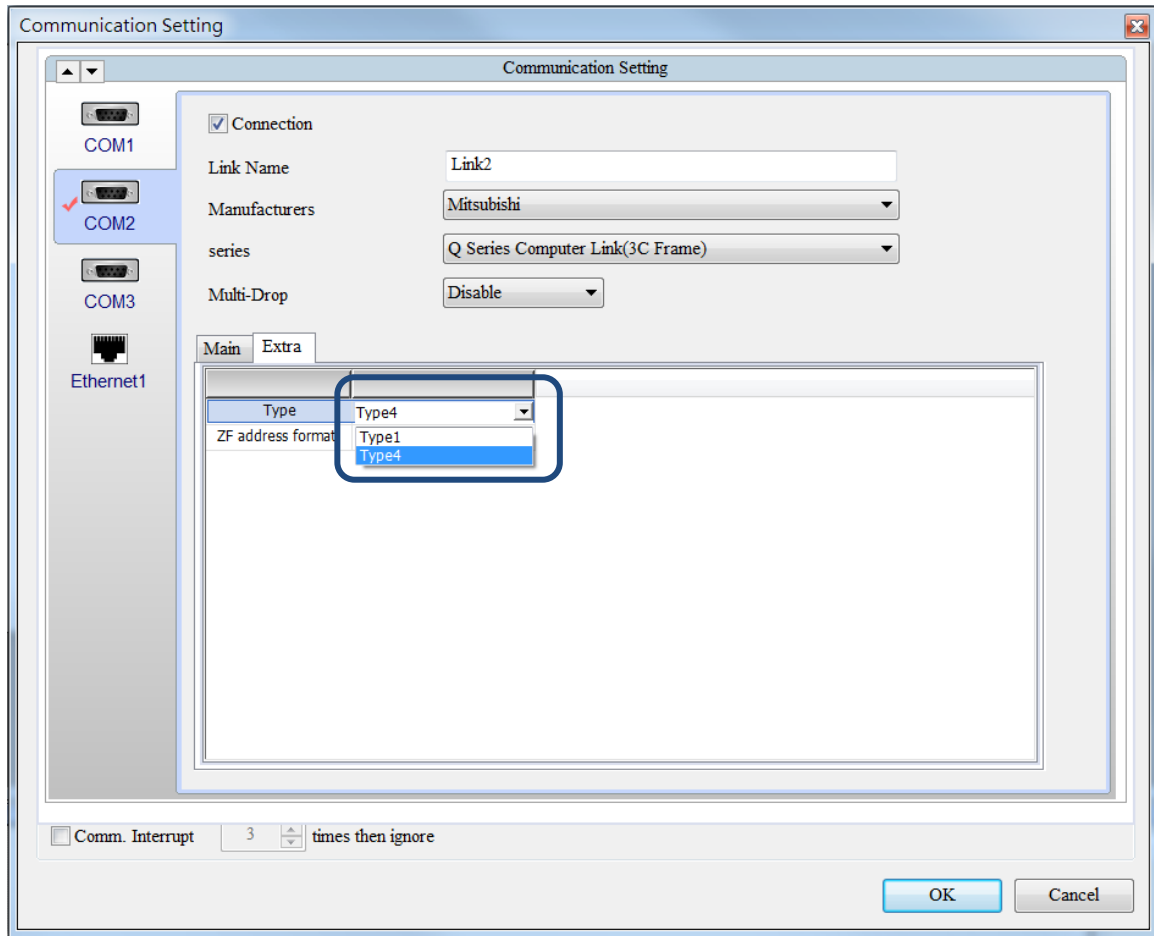
Type	Format	Read/Write Range	Note
	Bit No. (b)		
Input	X-b	X-0 - X-1FFF	Hexadecimal
Output	Y-b	Y-0 - Y-1FFF	Hexadecimal
Direct Input	DX-b	DX-0 - DX-1FFF	Hexadecimal
Direct Output	DY-b	DY-0 - DY-1FFF	Hexadecimal
Latch Relay	L-b	L-0 - L-32767	

Type	Format	Read/Write Range	Note
	Bit No. (b)		
Annunciator	F-b	F-0 - F-32767	
Edge Relay	V-b	V-0 - V-32767	
Step Relay	S-b	S-0 - S-8191	
Link Relay	B-b	B-0 - B-7FFF	Hexadecimal
Special Link Relay	SB-b	SB-0 - SB-7FF	Hexadecimal
Internal Relay	M-b	M-0 - M-32767	
Special Internal Relay	SM-b	SM-0 - SM-2047	
Timer Contact	TS-b	TS-0 - TS-23087	
Timer Coil	TC-b	TC-0 - TC-23087	
Retentive Timer Contact	SS-b	SS-0 - SS-23087	
Retentive Timer Coil	SC-b	SC-0 - SC-23087	
Counter Contact	CS-b	CS-0 - CS-23087	
Counter Coil	CC-b	CC-0 - CC-23087	
Data Register	D-n.b	D-0.0 - D-45055.15	
File Register	R- n.b	R-0.0 - R-32767.15	
File Register	ZR-n.b	ZR-0.0 - ZR-32768.15	4
		ZR-0.0 - ZR-7FFF.F	Hexadecimal, 4
Link Register	W-n.b	W-0.0 - W-1FFF.F	Hexadecimal



- 1) If the baud rate is incorrect, HMI will set PLC baud rate as HMI baud rate automatically.
- 2) The device address must be the multiple of 16.

- 3) It can set Format Type on “DopSoft → Communication Setting → Com port → Extra”, default is “Type 4”.



- 4) This controller supports both hexadecimal /decimal format for File Register ZR, it can be done through set extra parameter in “DopSoft → Communication Setting → Com port → Extra → ZF address format”, default value is hexadecimal.

