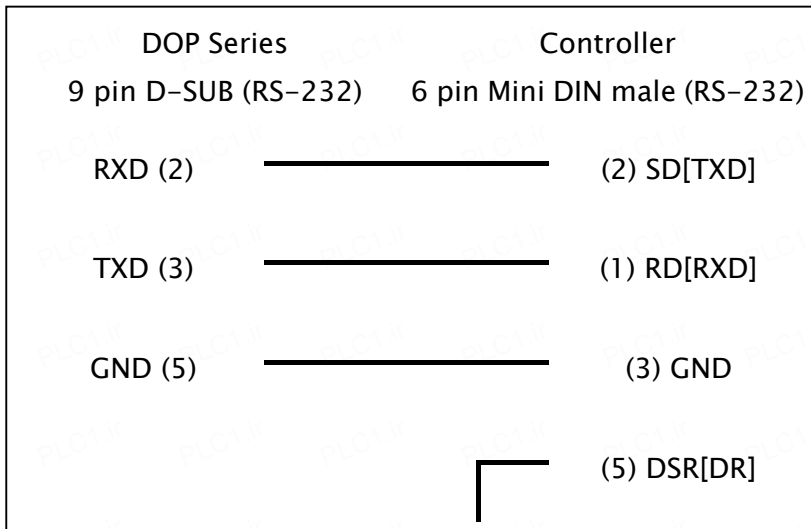# Mitsubishi Q series CPU Port

HMI Factory Setting:

Baud rate: 19200, 8, Odd, 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-232 (DOP-A/AE/AS, DOP-B Series)

Definition of PLC Read/Write Address

a. Registers

Type	Format Word No. (n)	Read/Write Range	Data Length	Note
Input	X-n	X-0 – X-1FFF	Word	Hexadecimal, 2
Output	Y-n	Y-0 – Y-1FFF	Word	Hexadecimal, 2
Direct input	DX-n	DX-0 – DX-1FFF	Word	Hexadecimal, 2
Direct output	DY-n	DY-0 – DY-1FFFF	Word	Hexadecimal, 2
Latch Relay	L-n	L-0 – L-32767	Word	2

Type	Format Word No. (n)	Read/Write Range	Data Length	Note
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–25983	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–FFFF	Word	Hexadecimal
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 Bit No. (b)	Read/Write Range	Note
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	
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	

Type	Format Bit No. (b)	Read/Write Range	Note
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	

NOTE

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)   This protocol supports Mitsubishi Q00 and Q00J series.