

Delta Controller ASCII/RTU

HMI Factory Setting:

Baud rate: 9600, 7, None, 2 (ASCII); 9600, 8, None, 2 (RTU)

Controller Station Number: 1

Control Area / Status Area: None/None

Connection

Delta Servo

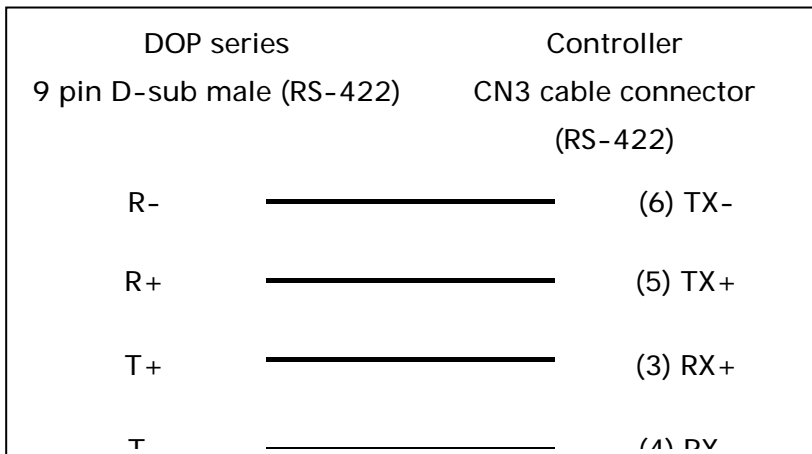
a. RS-232 (DOP-A/AE/AS, DOP-B Series)

DOP series		Controller	
9 pin D-sub male (RS-232)		CN3 cable connector (RS-232)	
RXD (2)	—————	(2) TX	
TXD (3)	—————	(4) RX	
CND (5)		(1) CND	

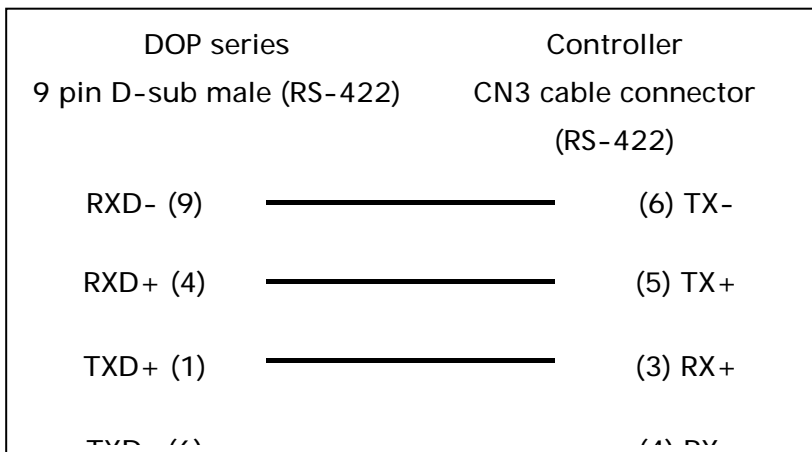
b. RS-422 (DOP-A/AE Series)

DOP series		Controller	
9 pin D-sub male (RS-422)		CN3 cable connector (RS-422)	
RXD- (1)	—————	(6) TX-	
RXD+ (2)	—————	(5) TX+	
TXD+ (3)	—————	(3) RX+	
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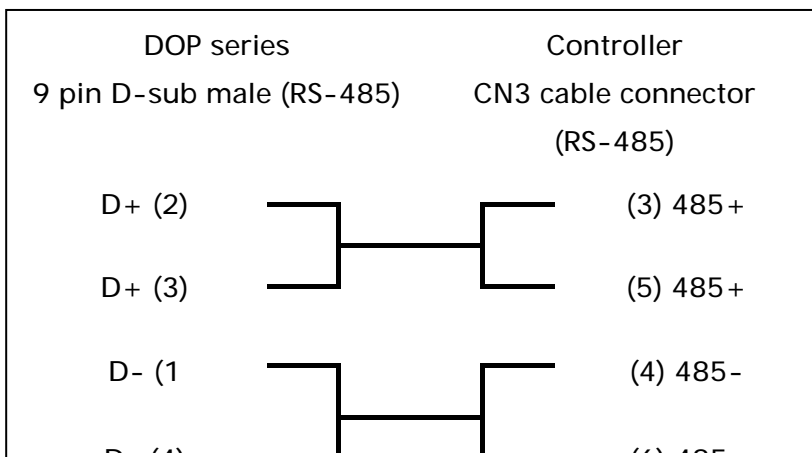
c. RS-422 (DOP-AS35/AS38/AS57 Series)



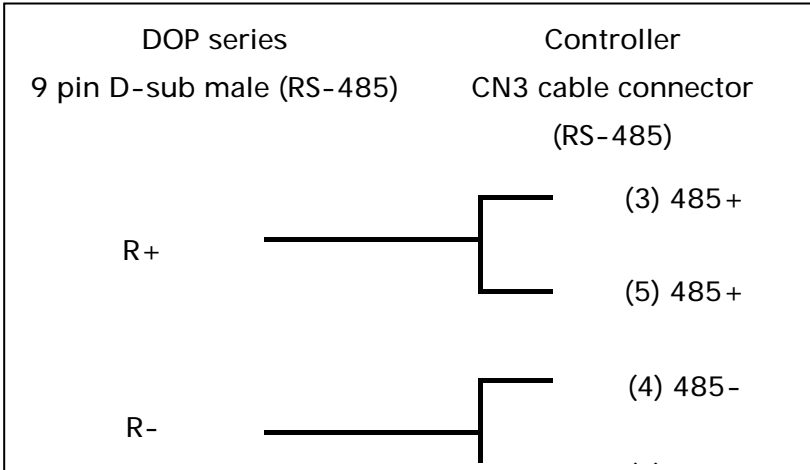
d. RS-422 (DOP-B Series)



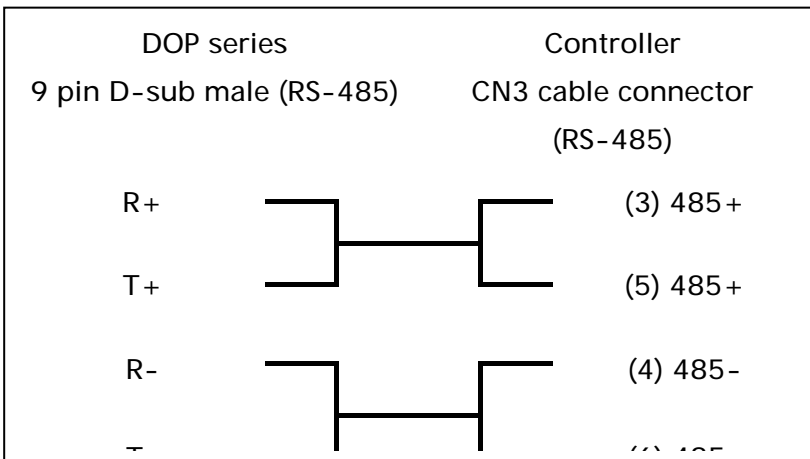
e. RS-485 (DOP-A/AE Series)



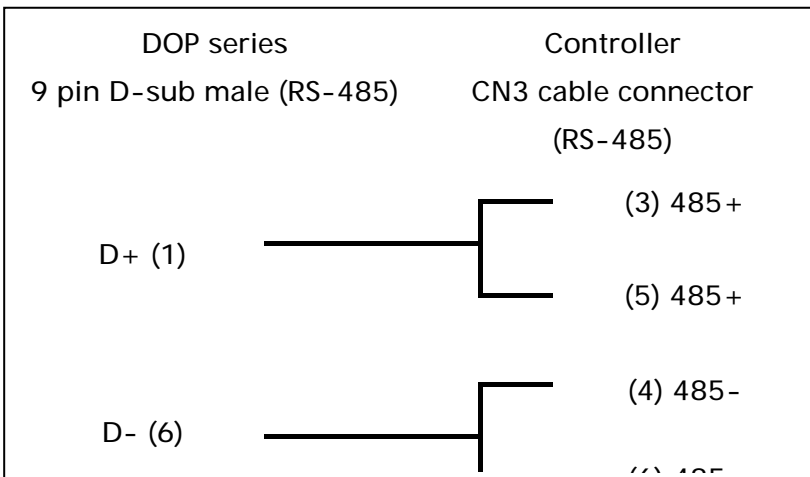
f. RS-485 (DOP-AS57 Series)



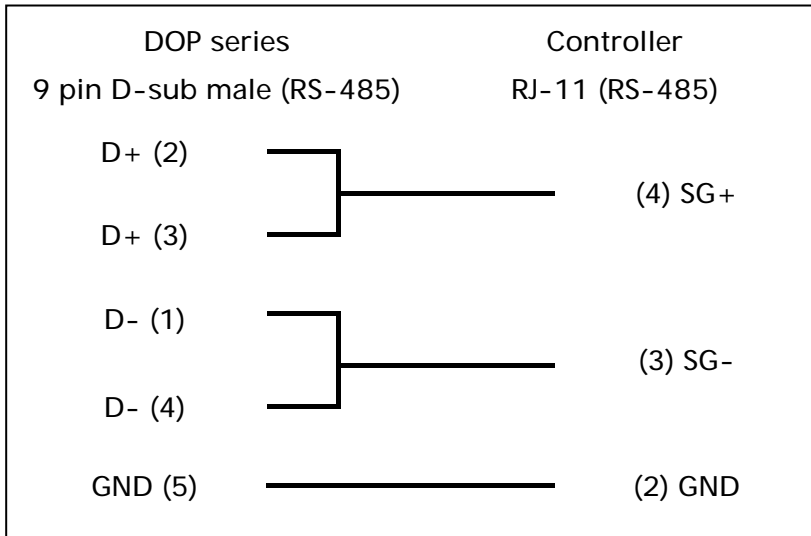
g. RS-485 (DOP-AS35/AS38 Series)



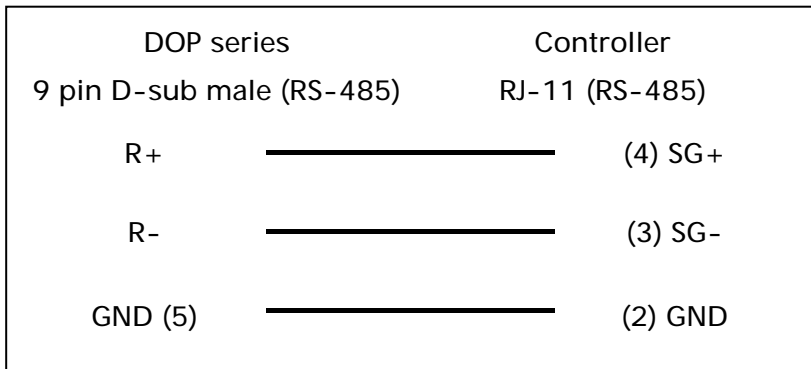
h. RS-485 (DOP-B Series)



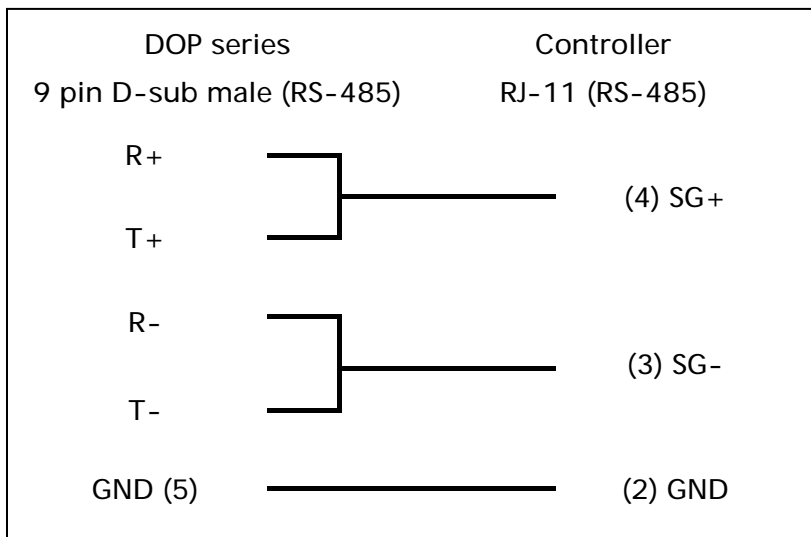
a. RS-485 (DOP-A/AE Series)



b. RS-485 (DOP-AS57 Series)



c. RS-485 (DOP-AS35/AS38 Series)

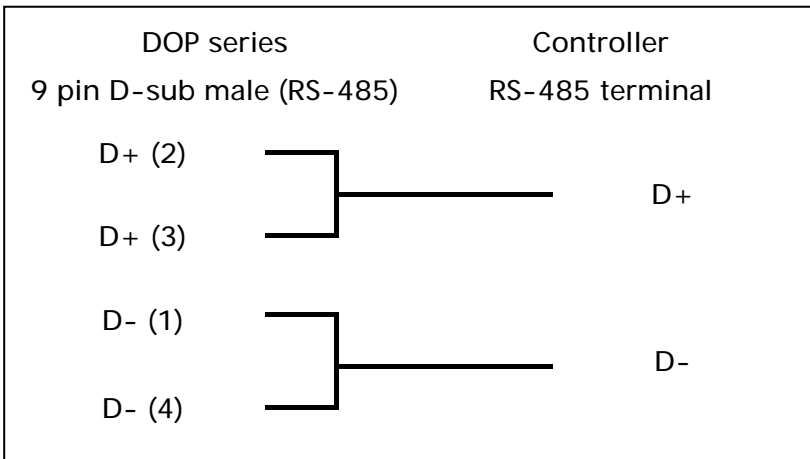


d. RS-485 (DOP-B Series)

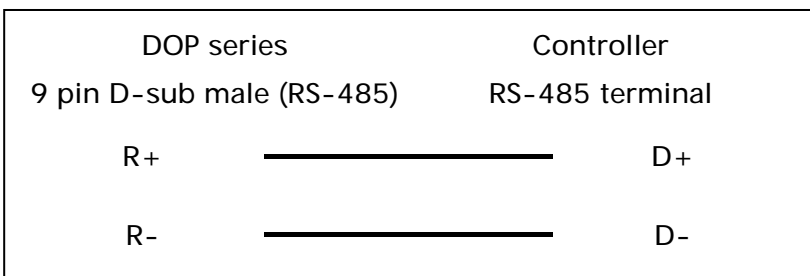


Temperature Controller

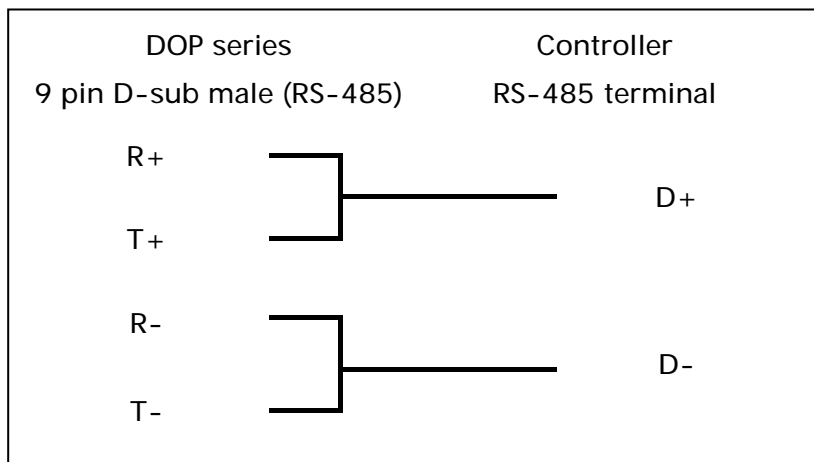
a. RS-485 (DOP-A/AE Series)



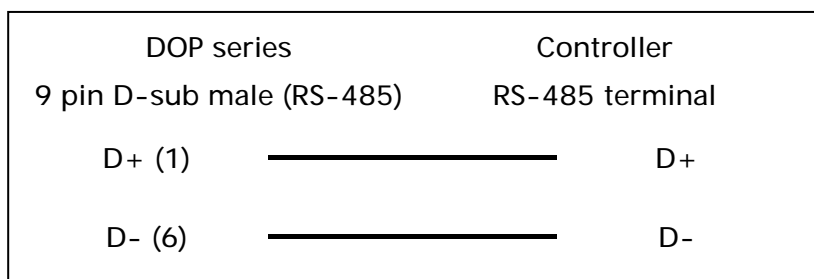
b. RS-485 (DOP-AS57 Series)



c. RS-485 (DOP-AS35/AS38 Series)



d. RS-485 (DOP-B Series)



Definition of PLC Read/Write Address

a. Registers

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Servo Communication Address	SERVO-n	SERVO-0 – SERVO-FFFF	Word	Hexadecimal
AC Drive Communication Address	INVERTER-n	INVERTER-0 – INVERTER-FFFF	Word	Hexadecimal
Temperature Controller Communication Address	TEMP_CTRL-n	TEMP_CTRL-0 – TEMP_CTRL-6000	Word	Hexadecimal
PLC Communication Address X	PLC_Xn	PLC_X0 – PLC_X360	Word	Octal, 1
PLC Communication Address Y	PLC_Yn	PLC_Y0 – PLC_Y360	Word	Octal, 1
PLC Communication Address M	PLC_Mn	PLC_M0 – PLC_M1520, PLC_M1536 – PLC_M4080	Word	1
PLC Communication Address S	PLC_Sn	PLC_S0 – PLC_S1008	Word	1
PLC Communication Address T	PLC_Tn	PLC_T0 – PLC_T255	Word	

Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
PLC Communication Address C	PLC_Cn	PLC_C0 – PLC_C199	Word	
PLC Communication Address D	PLC_Dn	PLC_D0 – PLC_D11999	Word	
PLC Communication Address HC	PLC_HCn	PLC_HC200 – PLC_HC255	Double Word	
PLC Communication Address Module	PLC_Modulen	PLC_Module4000 – PLC_Module4499	Word	Hexadecimal
Output Registers	RW-n	RW-0 – RW-FFFF	Word	Hexadecimal
Input Registers	R-n	R-0 – R-FFFF	Word	Hexadecimal
Output Registers	Wn	W40001 – W50000	Word	
Input Registers	Wn	W30001 – W40000	Word	

b. Contacts

Type	Format	Read/Write Range	Note
	Word No.(n) Bit No. (b)		
Servo Communication Address	SERVO-n.b	SERVO-0.0 – SERVO-FFFF.F	Hexadecimal
AC Drive Communication Address	INVERTER-n.b	INVERTER-0.0 – INVERTER-FFFF.F	Hexadecimal
Temperature Controller Communication Address	TEMP_CTRL-n.b	TEMP_CTRL-0.0 – TEMP_CTRL-6000.F	Hexadecimal
Servo Digital Input	SERVO_DI-b	SERVO_DI-1 – SERVO_DI-8	2
Servo Digital Output	SERVO_DO-b	SERVO_DO-1 – SERVO_DO-5	2
PLC Communication Address X	PLC_Xb	PLC_X0 – PLC_X377	Octal
PLC Communication Address Y	PLC_Yb	PLC_Y0 – PLC_Y377	Octal
PLC Communication Address M	PLC_Mb	PLC_M0 – PLC_M1535, PLC_M1536 – PLC_M4095	
PLC Communication Address S	PLC_Sb	PLC_S0 – PLC_S1023	
PLC Communication Address T	PLC_Tb	PLC_T0 – PLC_T255	
PLC Communication Address C	PLC_Cb	PLC_C0 – PLC_C255	

PLC Communication Address D	PLC_Dn.b	PLC_D0.0 – PLC_D11999.15	
Temperature Controller Bit Communication Address	TEMP_CTRLB-b	TEMP_CTRLB-800 – TEMP_CTRLB-8FF	Hexadecimal
Discrete Outputs	RWB-b	RWB-0 – RWB-FFFF	Hexadecimal
Discrete Inputs	RB-b	RB-0 – RB-FFFF	Hexadecimal
Discrete Outputs	Bb	B1 – B10000	
Discrete Inputs	Bb	B10001 – B20000	

 **NOTE**

- 1) Device address must be the multiple of 16.
- 2) SERVO_DI-, SERVO_DO- are only for A, B, AB and A+ series Servo °.
- 3) HMI can be connected to several temperature controllers using RTU transmission mode. However a communication delay time of 5ms or longer is highly recommended.