

## RKC CB Series

### HMI Factory Setting:

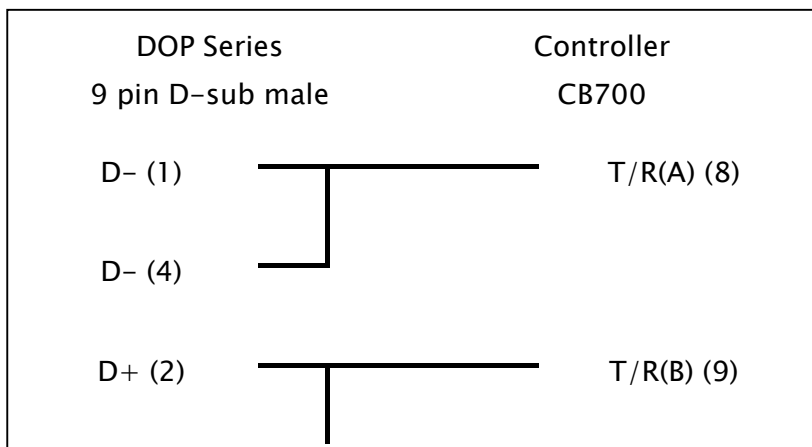
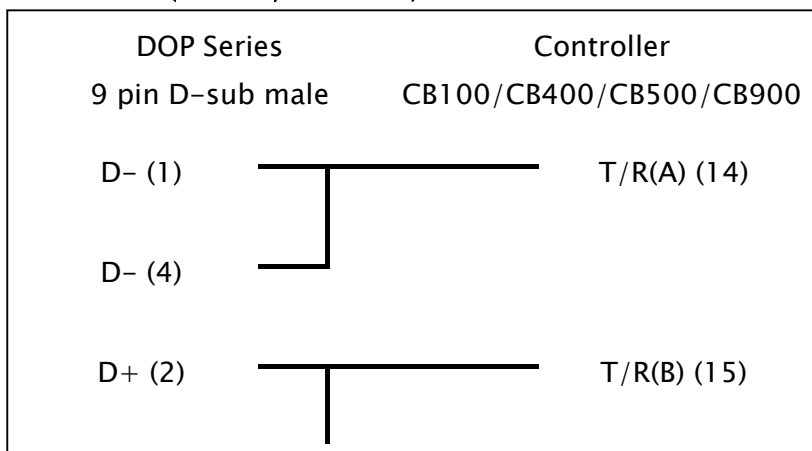
Baud rate: 9600, 8, Even, 1 (RS-485)

Controller Station Number: 0

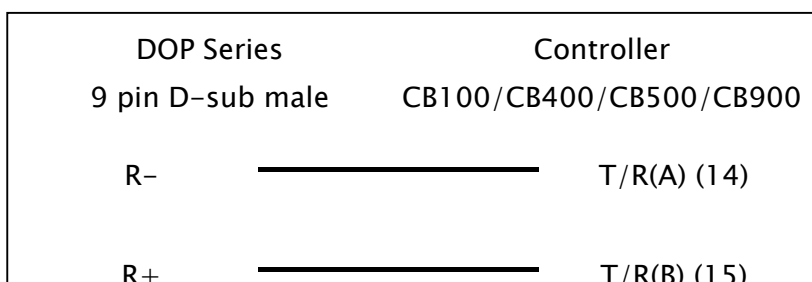
Control Area / Status Area: None/None

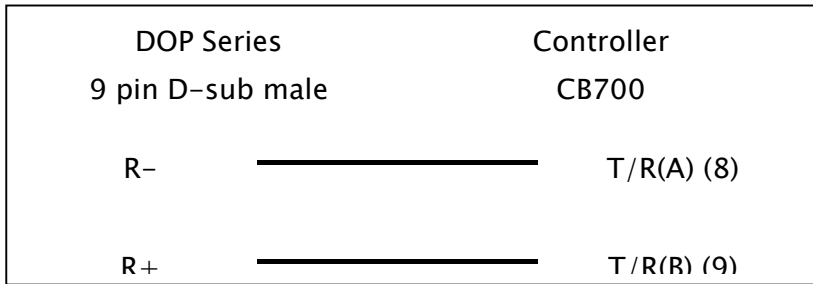
### Connection

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

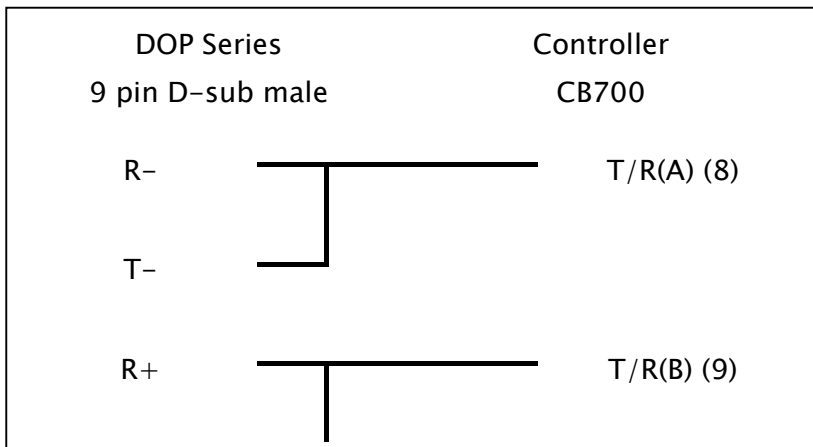
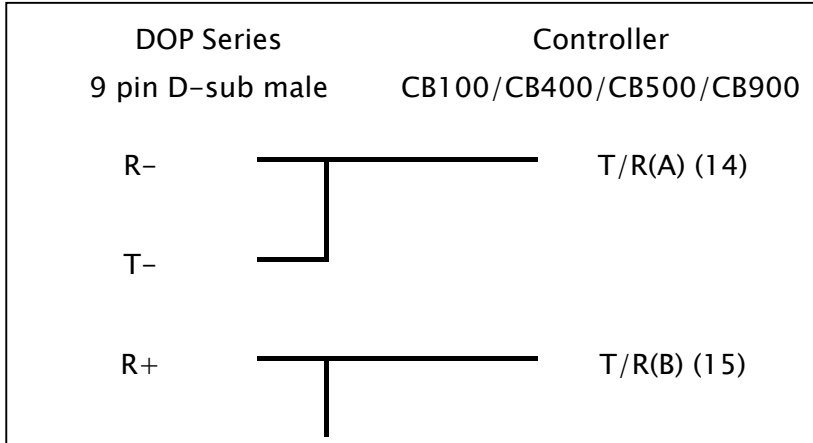


#### b. RS-485 (DOP-AS57 Series)

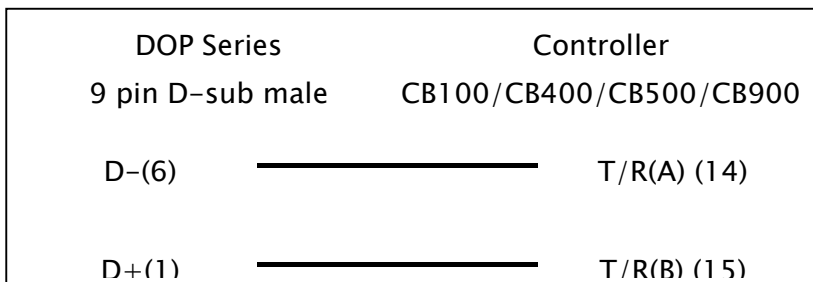


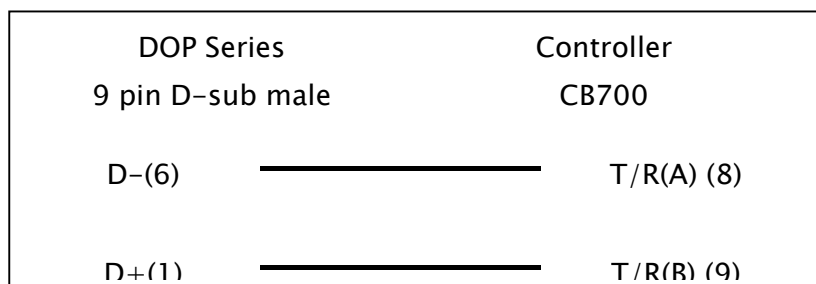


**c. RS-485 (DOP-AS35/A38 Series)**



**d. RS-485 (DOP-B Series)**





**Definition of PLC Read/Write Address**

**a. Registers**

Type	Format	Read/Write Range	Data Length	Note
	Channel No.(n)			
Measured value (PV)	M1:n	M1:1	Word	Read only, <a href="#">1</a>
Current transformer input 1	M2:n	M2:1	Word	Read only, <a href="#">1</a>
Current transformer input 2	M3:n	M3:1	Word	Read only, <a href="#">1</a>
Error code	ER:n	ER:1	Word	Read only, <a href="#">1</a>
Set value (SV)	S1:n	S1:1	Word	<a href="#">1</a>
	S1:n.m	S1:1.1	Word	<a href="#">2</a>
Alarm 1 setting	A1:n	A1:1	Word	<a href="#">1</a>
	A1:n.m	A1:1.1	Word	<a href="#">2</a>
Alarm 2 setting	A2:n	A2:1	Word	<a href="#">1</a>
	A2:n.m	A2:1.1	Word	<a href="#">2</a>
Heater break alarm 1 setting	A3:n	A3:1	Word	<a href="#">1</a>
	A3:n.m	A3:1.1	Word	<a href="#">2</a>
Heater break alarm 2 setting	A4:n	A4:1	Word	<a href="#">1</a>
	A4:n.m	A4:1.1	Word	<a href="#">2</a>
Control loop break alarm (LBA) setting	A5:n	A5:1	Word	<a href="#">1</a>
	A5:n.m	A5:1.1	Word	<a href="#">2</a>
LBA deadband	A6:n	A6:1	Word	<a href="#">1</a>
	A6:n.m	A6:1.1	Word	<a href="#">2</a>
Heat-side proportional band	P1:n	P1:1	Word	<a href="#">1</a>
	P1:n.m	P1:1.1	Word	<a href="#">2</a>
Integral time	I1:n	I1:1	Word	<a href="#">1</a>
Derivative time	D1:n	D1:1	Word	<a href="#">1</a>
Anti-reset windup	W1:n	W1:1	Word	<a href="#">1</a>

Type	Format	Read/Write Range	Data Length	Note
	Channel No.(n)			
Heat-side proportioning cycle	T0:n	T0:1	Word	<a href="#">1</a>
Cool-side proportional band	P2:n	P2:1	Word	<a href="#">1</a>
Overlap/deadband	V1:n	V1:1	Word	<a href="#">1</a>
	V1:n.m	V1:1.1	Word	<a href="#">2</a>
Cool-side proportioning cycle	T1:n	T1:1	Word	<a href="#">1</a>
PV bias	PB:n	PB:1	Word	<a href="#">1</a>
	PB:n.m	PB:1.1	Word	<a href="#">2</a>
Set data lock function	LK:n	LK:1	Word	<a href="#">1</a>

**b. Contacts**

Type	Format	Read/Write Range	Note
	Channel No.(b)		
Alarm 1 status	AA:b	AA:1	Read only
Alarm 2 status	AB:b	AB:1	Read only
Burnout status	B1:b	B1:1	Read only
RUN/STOP transfer	SR:b	SR:1	
Autotuning (AT)	G1:b	G1:1	
Self-tuning (ST)	G2:b	G2:1	
EEPROM storage mode	EB:b	EB:1	
EEPROM storage state	EM:b	EM:1	Read only

 **NOTE**

- 1) The input value and display value of RKC CB Series supports integer only.
- 2) The input value and display value of RKC CB Series must in one decimal place.
- 3) This communication protocol supports multiple PLC connection, but 31 is the most.
- 4) After PLC is set, please re-activate the PLC.
- 5) The input pin 11 and pin 12 of CB900 should to be short when they are no loading, otherwise ALM1 signal would blink and PV would show overscale("0000").
- 6) This PLC should be set to PKC protocol(Tens digits of SL10 should be set to 0(XX0X))
- 7) The register Set data lock function(LK:n) doesn't affect communication , this PLC still can be set.

- 8) When the value in register is integer but write a decimal in PLC, the fraction part will be ignored; only integer part will be written in PLC.