

RKC Rex B Series

HMI Factory Setting:

Baud rate: 9600, 7, Even, 2 (RS-422)

Controller Station Number: 1

Control Area / Status Area: None/None

Connection

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

DOP Series		Controller
9 pin D-sub male		
RXD- (1)	—————	TA (12)
RXD+ (2)	—————	TB (13)
TXD+ (3)	—————	RB (15)
TXD- (4)	—————	RA (14)

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

DOP Series		Controller
9 pin D-sub male		
R-	—————	TA (12)
R+	—————	TB (13)
T+	—————	RB (15)
T-	—————	RA (14)

c. RS-422 (DOP-B Series)

DOP Series		Controller
9 pin D-sub male		
RXD- (9)	—————	TA (12)
RXD+ (4)	—————	TB (13)
TXD+ (1)	—————	RB (15)
TXD- (6)	—————	RA (14)

Definition of PLC Read/Write Address

a. Registers

Type	Format	Read/Write Range	Data Length	Note
	Channel No.(n)			
Temperature measured-value (PV)	M1:n	M1:1 - M1:8	Word	Read only, 1
Control output status (Heating-side)	O1:n	O1:1 - O1:8	Word	Read only, 1
Control output status (Cooling-side)	O2:n	O2:1 - O2:8	Word	Read only, 1
Heater break alarm status	AC:n	AC:1 - AC:8	Byte	Read only
Current transformer input value	M2:n	M2:1 - M2:8	Word	Read only, 1
Error code	ER:n	ER:1	Word	Read only
Communication Error code	EC:n	EC:1	Word	Read only
PID/AT identification	G1:n	G1:1 - G1:8	Byte	
Temperature set-value (SV)	S1:n	S1:1 - S1:8	Word	1
Proportional band (Heating-side)	P1:n	P1:1 - P1:8	Word	1
Proportional band (Cooling-side)	P2:n	P2:1 - P2:8	Word	1
Integral time	I1:n	I1:1 - I1:8	Word	
Derivative time	D1:n	D1:1 - D1:8	Word	

Type	Format	Read/Write Range	Data Length	Note
	Channel No.(n)			
Anti-reset windup	W1:n	W1:1 - W1:8	Word	
Deadband	V1:n	V1:1 - V1:8	Word	1
Alarm 1 setting	A1:n	A1:1 - A1:8	Word	1
Alarm 2 setting	A2:n	A2:1 - A2:8	Word	1
Channel used/unused	E1:n	E1:1 - E1:8	Byte	
Proportional cycle (Heating-side)	T0:n	T0:1 - T0:8	Word	
Proportional cycle (Cooling-side)	T1:n	T1:1 - T1:8	Word	
PV bias	PB:n	PB:1 - PB:8	Word	1
Heater break alarm setting	A3:n	A3:1 - A3:8	Word	1
Memory area execution NO. setting	ZA:n	ZA:1	Byte	
Control response parameter	CA:n	CA:1 - CA:8	Byte	
Output Monitoring time	TU:n	TU:1	Word	
Event function selection	XK:n	XK:1	Byte	

b. Contacts

Type	Format	Read/Write Range	Note
	Channel No.(b)		
Alarm 1 status	AA:b	AA:1 - AA:8	Read only
Alarm 2 status	AB:b	AB:1 - AB:8	Read only
Burnout status	B1:b	B1:1 - B1:8	Read only
Control run/stop	X1:b	X1:1	
Alarm interlock release	AR:b	AR:1	Read only
Event input status	L1:b	L1:1	Read only

 **NOTE**

- 1) The input value and display value of RKC Rex B Series must in one decimal place. Please refer to RKC user manual to ensure if the temperature controller supports one decimal place.