Microprocessor Controllers

YD Series

Features

- Various I/O Types.
- Sampling cycle 0.5 sec. -can revise the PV high spot and the low point.
- Maximun with 3 sets of alarm - more than 20 alarm modes available.
- Remote SV / Transmission.
- RS-485 Communication(MODBUS).
- TTL Communication.
- RS-232 deposit and withdrawal function.
- Program 2 patterns 8 segments (programs events).
- Output2 4~20mA transmission(forward and reverse)
- Heating and Cooling Control.
- Motor valve control.
- SCR / TRIAC Trigger.
- Current monitoring alarm.

Specifications

Input	Type of Input	TC(K,J,R,S,B,E,N,T,W,PLII,U,L)
		RTD(PT100,JPT100,JPT50)
		Linear(0~1V,0~5V,0~10V,1~5V,2~10V,-10~10mV,0~10mV 0~20mV.0~50mV,10~50mV,4~20mA,0~20mA)
	Input Sampling Time	250 ms
	Input Resolution	16 bit(Each)
Indication	PV/SV Indication	4 Digit, 7 segmet display
	Consrant Value System	Non-volatile memory(E^{2}PROM)
	Indication Accuracy	0.5% FS
Control Mode	Proportional Band(P)	0~200 % (ON-OFF action at P=0)
	Integral Time(I)	0~3600 sec. (PD action at I=0)
	Derivative Time(D)	0~900 sec. (PI action at D=0)
	Cycle Time	0~150 sec. (4~20mA→0,SSR→1,Relay→15)
	Dead Band Time	0~1000 sec. (dead time compensation)
Output out1/out2	Relay Output	Contact,SPDT,3A240VAC
	Voltage Output	Voltage Pulse, 20VDC/20mA
	Linear Output	4~20mA,0~5V,0~10V,1~5V,2~10V
	Output Type	Output1:Heat/Cool ; Output2:Cool
Alarm	Channel	3 channel(AL1/AL2/AL3)
	Mode	20 alarm Modes Available
	Timer	Ficker Alarm, Continued Alarm, on Delay Timer Alarm
General Specifications	Rated Power Supply & Frequency	AC 85~265V,50/60HZ
	Power Consumption	4VA
	Ambient Temperature	-25℃~65℃
	Ambient Humidity	50~85% RH(non condensing)

Model & Suffix codes

Model	Code
YD- ❶	❷ ❸ ❹ —— ❺ ❻ ❼ —— ❽ ❾

1.Dimensions

400	48x48 mm
600	96x48 mm
700	72x72 mm
800	48x96 mm
900	96x96 mm
790	72x96 mm
970	96x72 mm

2.Output 1

0	None
1	Relay
2	SSR
3	4~20mA
4	0~20mA
5	1 ϕ SCR zero cross control
6	3 ϕ SCR zero cross control
7	Motor valve control
8	1 ϕ SCR phase angle control
9	3 ϕ SCR phase angle control
A	0 ~5V
B	0~10V
C	1~5V
D	2~10V

3.Output 2

0	None
1	Relay
2	SSR
3	4~20mA
4	0~20mA
A	0~5V
B	0~10V
C	1~5V
D	2~10V

4.Alarm

0	None
1	1 Set
2	2 Sets
3	3 Sets

5.Transmission

0	None
1	4~20mA
2	0~20mA
A	0~5V
B	0~10V
C	1~5V
D	2~10V

6.Remote SV

0	None
1	4~20mA
2	0~20mA
A	0~5V
B	0~10V
C	1~5V
D	2~10V

7.Communication

0	None
1	RS232
2	RS485
3	TTL
A	RS232_MODBUS
B	RS485_MODBUS

8.Input Type

Refer to type table

9.Power

A	AC 85~265V
D	DC24V

Input type table

Type	1	2	3	4	5	6
K	K1 / 0.0~200.0℃	K2 / 0.0~400.0℃	K3 / 0~600℃	K4 / 0~800℃	K5 / 0~1000℃	K6 / 0~1200℃
J	J1 / 0.0~200.0℃	J2 / 0.0~400.0℃	J3 / 0~600℃	J4 / 0~800℃	J5 / 0~1000℃	J6 / 0~1200℃
R	R1 / 0~1600℃	R2 / 0~1769℃				
S	S1 / 0~1600℃	S2 / 0~1769℃				
B	B1 / 0~1820℃					
E	E1 / 0~800℃	E2 / 0~1000℃				
N	N1 / 0~1200℃	N2 / 0~1300℃				
T	T1 / -199.9~400.0℃	T2 / -199.9~200.0℃	T3 / 0.0~350.0℃			
W	W1 / 0~2000℃	W2 / 0~2320℃				
PL	PL1 / 0~1300℃	PL2 / 0~1390℃				
U	U1 / -199.9~600.0℃	U2 / -199.9~200.0℃	U3 / 0.0~400.0℃			
L	L1 / 0~400℃	L2 / 0~800℃				
JP100Ω	JP1 / -199.9~600.0℃	JP2 / -199.9~400.0℃	JP3 / -199.9~200.0℃	JP4 / 0~200℃	JP5 / 0~400℃	JP6 / 0~600℃
DPT100Ω	dP1 / -199.9~600.0℃	dP2 / -199.9~400.0℃	dP3 / -199.9~200.0℃	dP4 / 0~200℃	dP5 / 0~400℃	dP6 / 0~600℃
JP50.Ω	JP.1 / -199.9~600.0℃	JP.2 / -199.9~400.0℃	JP.3 / -199.9~200.0℃	JP.4 / 0~200℃	JP.5 / 0~400℃	JP.6 / 0~600℃
AN1-5	An1 / -10~10mv -1999~9999	An2 / 0~10mv x 2 -1999~9999	An3 / 0~20mv x 5 -1999~9999	An4 / 0~50mv 0~20mA 0~5V -1999~9999	An5 / 10~50mv 4~20mA 1~5V -1999~9999	