SDM series

Features

- 2 Pattern 12 Segment Programable control
- Heat-Cool Control
- Universal Input/ Output
- User selectable control mode
- Various alarm mode (Max 8 Alarm code)
- Retransmission output (PV, SV, MV)
- Fuzzy logic
- RS485 Interface (Modbus ASCII)
- Changeable SV1/SV2, Auto/Manual control by External S/W
- Changeable manual control by front key

Certificate

CE

Specifications

	SDM 9000	SDM 4900	SDM 7000	SDM 9400	SDM 4000
Dimension	96×96×100	48×96×100	72×72×100	96×48×100	48×48×90
Input	Universal Input : T.C (K, J, E, N, C, T, R, S, B), DPT100Ω, JPT100Ω, 1-5Vdc, 0-5Vdc				
Output	Universal Output : Relay, 4-20mA, SSR				None Universal
Sampling Time	160ms				
Control Mode	PID, PI, PD, P, On-Off, Heat - Cooling				
Accuracy	T.C : ±0.3% of F.S+1Digit or 3℃, R.T.D & Vdc : ±0.2% of F.S+1Digit				
Alarm	2 Points Alarm : Relay				1 Point Alarm
Power	100-240Vac, 50/60Hz, Max 0.5A				
Operating Condition	Temperature : 0-50℃, Humidity : 35-85%RH				
Others	2 Pattern 12 Segment Program Control, 17Vdc Sensor Power, RS485 Interface, Digital Input				

Typical Application

- ☑ Programable Control —— 2 Pattern 12 Segment
- ☑ Sensor Power —— 17Vdc, Max 30mA
- ☑ Retransmission Output —— 4-20mA Current Output
- ☑ Initial Increasing Temperature —— Upper Time Ratio
- ☑ Communication —— RS485 Interface (Modbus ASCII)
- ☑ Output Operation —— Heating (REV) / Cooling (DIR)
- ☑ Display Type —— 4 Digit FND SV/PV Display
- ☐ Control StandBy Timer —— Reservation Timer
- ☐ Control End Timer —— Control Stop Timer
- ☑ Alarm Type —— Max 8 Alarm Code
- ☑ Control Stop/Start Mode —— Control Run/Stop

Input Type & Measurment Range

T.C	K (K1)	-70~1370℃ (-100.0~400.0℃)
	J	-70~950℃
	E	-70~750℃
	N	-100~1300℃
	C	0~2300℃
	T	-200~400℃
	R, S	0~1760℃
	B	0~1800℃
R.T.D	DPT, JPT (DPT1,JPT1)	-200~600℃ (-200.0~600.0℃)
DC V	1-5V, 0-5V	-900~9000
DC A	4-20mA, 0-20mA	-900~9000

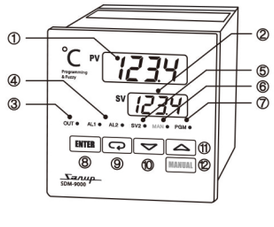
Ordering Code

SDM □-□□□□□

- Option — RS485, RET, DI
- Power — 100-240Vac, 50/60Hz
- Output — Universal
- Range — Range
- Input — Universal
- Model — 9000, 4900, 7000, 9400, 4000
- Series — Programable Controller

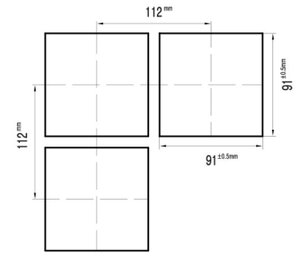
* RET, DI applied to SDM7000

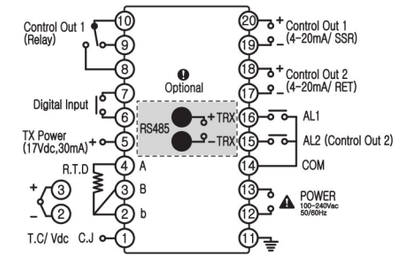
Functional Description



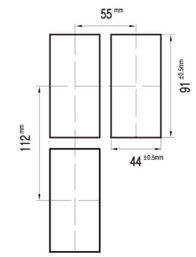
① PV : Display of Process value & Parameters
② SV : Display of Set value
③ OUT : Control output LED
④ AL1,2 : Alarm 1,2 status LED
⑤ SV2 : SV2 select LED
⑥ MAN : Manual control mode or Auto-tuning (Blink)
⑦ PGM : Program control mode
⑧ ENTER : Parameters fix or Program control RUN
⑨ MODE : Parameter select
⑩ DOWN : Decrement of parameter data & SV
⑪ UP : Increment of parameter data & SV
⑫ MANUAL : Changeable Auto/Manual control or Auto-tuning STOP

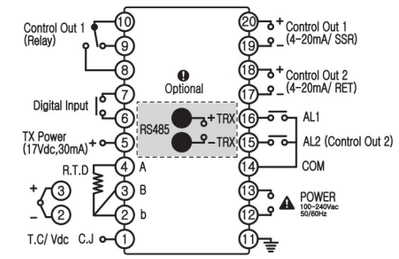
SDM 9000



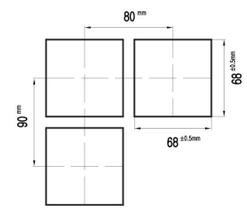


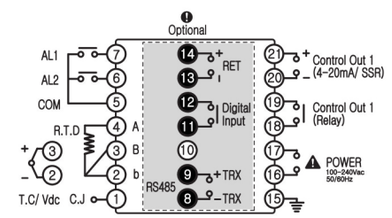
SDM 4900



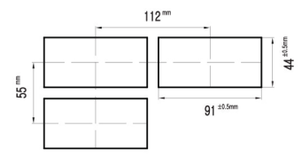


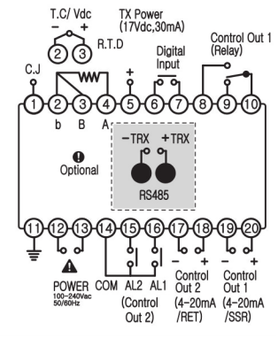
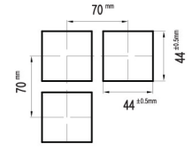
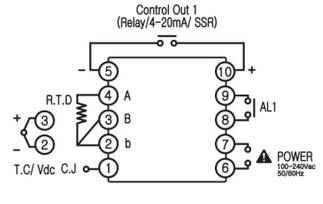
SDM 7000





SDM 9400





SDM 4000