

SPD4/5/7/9

Digital Controller



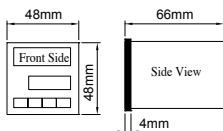
PRODUCT APPLICATION

- Small size design, panel depth is 62-65mm.
- Accuracy at $\pm (0.25\%FS+1 \text{ digit})$; sampling time is 0.25/sec.
- Input type: thermocouple, resistance bulb, voltage, current
- Process controller option: PID/ ON-OFF
- Controller option: Opposite direction (heat)/ positive direction (cooling)
- Output adjustment by automatic / manual: 0.0% ~ 100.0%
- OPTION: Control output 2 / Analog output / Communication RS485

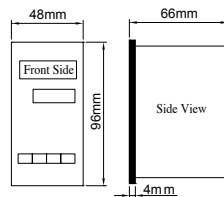
SPD 9 - I I F - E N - N N N N

Size	Input	Control Output 1	Power Supply	Event Output (1:2)	Control Output 2 / Event Output 3 / DI (4)	DI (1-3)	CT Input	Analog Output	Communication
4 : 48*48mm 5 : 48*96mm 7 : 72*72mm 9 : 96*96mm	M : Thermocouple Resistance bulb, voltage (-10...100mV) I : Current (0) 4~20mA V : Voltage -1...10VDC	C : Relay (1a) 240V AC 2A S : SSR 12V I : 4~20mA V : 0~10V	F : 90~264 VAC	E : 2 alarms (1a) 40V AC 2A	N : Non C : Relay (1a) 240V AC 2A I : 4~20mA V : 0~10V S : SSR 12V E : 3 alarms (1a) 240V AC 2A D : DI	N : Non D : DI 1,2,3	N : Non H : CT input 2	N : Non T : 4~20mA (SPD5/9)	N : Non R : RS485

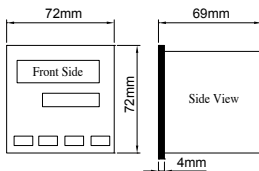
Dimension



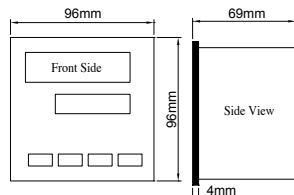
SPD4



SPD5

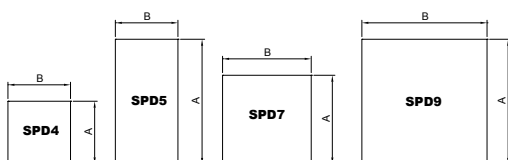


SPD7



SPD9

Panel Cutout



	Unit:mm	
	A	B
SPD4	45 ^{+0.6} ₋₀	45 ^{+0.6} ₋₀
SPD5	92 ^{+0.8} ₋₀	45 ^{+0.6} ₋₀
SPD7	68 ^{+0.7} ₋₀	68 ^{+0.7} ₋₀
SPD9	92 ^{+0.8} ₋₀	92 ^{+0.8} ₋₀

Technique Sheet

SPD4/5 Display4 digit, 7 segment LED (12 mm height, red)
Setting value: 4 digit, 7 segment LED (9 mm height, SV green)
SPD7 Display4 digit, 7 segment LED (16 mm height, red)
Setting value: 4 digit, 7 segment LED (11 mm height, SV green)
SPD9 Display4 digit, 7 segment LED (20 mm height, red)
Setting value: 4 digit, 7 segment LED (13 mm height, SV green)
Light statusGreen-RUN, AT, OUT1 ; Yellow-EV1, EV2,OUT2/EV3
Scale.....acceptable the value of voltage and current within -1999~9999

Input

Thermocouple..... K, J, T, E, R, S, U, N, B, PII, Wre5-26
Resistance bulb.....PT100, JPT100
Voltage(mV)..... 0~10mV, 0~20mV, -10~10mV, 0~50mV, 0~100mV
Voltage(V)..... 0~1V, 0~2V, -1~1V, 1~5V, 0~5V, 0~10V
Current(mA)..... 4~20mA, 0~20mA
Thermocouple input impedance

> 500K Ω ; output impedance <100 Ω
RTD cable resistance tolerance <5 Ω / each cable
(3 wires impedance should be equal)

Voltage (mv/V)/current(mA) / input impedance.....>500K Ω / 250 Ω
Display(PV) percolation 0~9999 / sec
Contact control output no(1a) 240VAC 2A (cable resistance)
Voltage pulse..... (SSR output) 12VDC (-1.5~1V) 20mA max.
Current output..... 4~20mA DC ; cable resistance under 500 Ω
Voltage output..... 0~10V DC ; 2mA max. ;
Working ambient..... -10~55 $^{\circ}$ C ; related humidity <90%rh
(non-condensing)

Shortage temperature..... -20~65 $^{\circ}$ C
Power supply 90~264VAC 50/ 60Hz
Power consumption 90~264VAC ; max.9VA
Input noise rejection \geq 50dB
Pulse noise regulation normal power supply range
100ns / 1 μ s \pm 1500V
HousingPPO or PPE
ColorSlight Gray
WeightSPD4: 100g / SPD5: 140g / SPD7: 140g / SPD9: 200g