

SPD4/5/7/9

PID Process Controller



APPLICATIONS

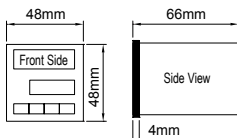
- Super short housing, panel length 62-65mm
- Accuracy $\pm (0.25\%F.S. + 1 \text{ digit})$; sampling time is 0.25/sec.
- Input type: thermocouple, platinum resistor, voltage, current.
- Process controlling direction: PID/ ON-FF
- Controlling option: Backward direction (heating) / forward direction (cooling).
- Output adjustment automatically / manually: 0.0%~100.0%.
- Option: Output 2, retransmitting via RS485.



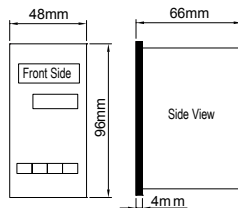
SPD 9 - I I F - E N - N N N N

Dimension	Input	Control Output 1	Power Supply	Event Output (1;2)	Control Output 2 / Event Output 3 / D I (4)	D I (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 : none C : Relay (1a) 240V AC 2A I : 4~20mA V : 0~10V S : SSR 12V E : event output 3 (1a) 240V AC 2A D : D I	N : none D : D I 1,2,3	N : none H : CT input 2	N : none T : 4~20mA (SPD5/9)	N : none R : RS485

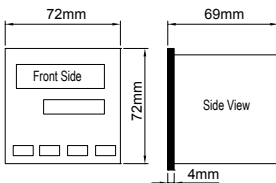
DIMENSION



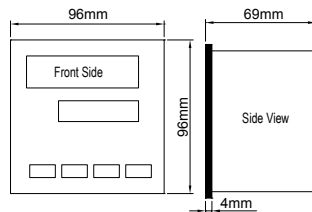
SPD4



SPD5

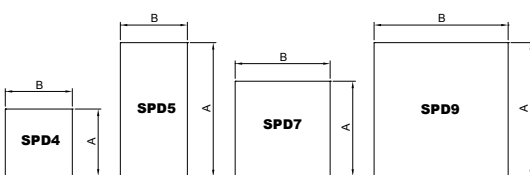


SPD7



SPD9

CONNECTION DIAGRAM



	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

TECHNICAL SHEET

SPD4/5 display PV red 4-digit, 7-segment LED display (height of character: 12mm), SV green 4-digit, 7-segment LED display (height of character: 9mm)

SPD7 display PV red 4-digit, 7-segment LED display (height of character: 16mm), SV green 4-digit, 7-segment LED display (height of character: 11mm)

SPD9 display PV red 4-digit, 7-segment LED display (height of character: 20mm), SV green 4-digit, 7-segment LED display (height of character: 13mm)

Status display green -RUN, AT, OUT1; yellow -EV1, EV2, OUT2/EV3

Input scaling acceptable input value of voltage and current -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 resistance >500K Ω , outside resistance <100 Ω
 RTD cable resistance range every cable <5 Ω (the resistance for 3 cables should be the same)
 Voltage (mv/V) / Current(mA) Input resistance >500K Ω /250 Ω
 PV filter 0~9999 sec.
 Contact control output NO (1a) 240VAC 2A (resistance load)
 Voltage pulse (SSR output) 12VDC (-1.5~1V) max. 20mA
 Current output 4~20mA DC ; load resistance below 500 Ω
 Voltage output 0~10V DC max. 2mA
 Operating condition -10~55 $^{\circ}$ C ; relative humidity < 90%rh (non-cond.)
 Storage temperature -20~65 $^{\circ}$ C
 Power supply 90~264VAC 50/60Hz
 Power consumption 90~264VAC max. 9VA
 Input noise removal ratio 50dB or above
 Impulse-proof noise normal power supply range 100ns/1 μ s \pm 1500V
 Housing PPO or PPE
 Housing color light grey
 Weight SPD4: ca. 100g/SPD5: ca. 140g
 SPD7: ca. 140g/SPD9: ca. 200g