

Low Cost Temperature Controller

VD2000 / VD2001 / VD2003 / VD2004 Series

Model: SD660 (with 0.8" LED Display)



Model: **SD660**
Size: 96x48mm

- ▶ Selective T/C, RTD, Linear Input
- ▶ Selective P, PD, or ON/OFF control mode
- ▶ Universal power supply 90~240VAC, 50/60Hz ; DC 24V is also available for option.
- ▶ Max. 3 Alarm outputs available option
- ▶ Standby and Latch mode can be combined with 8 different alarm function.
- ▶ Retransmission or RS-485 communication (MODBUS RTU) is available for option.

SPECIFICATION

Input	Thermocouple (J, K, R, S, T, E, B, N, C type) DIN Pt100Ω or JIS Pt100Ω Linear (4~20mA, 0~50mV, 1~5V, 0~10V.....)
Accuracy	± 1°C for Thermocouple Input ±0.2°C for Pt100Ω ; ±3 μV for Linear Input
Sampling Time	0.25 sec.
Control Mode	P. band 0.0~300.0% F.S. for P control & PD control Derivate Time: 0~900 sec. Hysteresis range 0~2000 for ON/OFF control
Cycle Time (0~100)	Relay Contact Output 15 sec. Pulsed Voltage Output (SSR) 1sec. Continuous Current (Voltage): 0 sec.
Output Mode	Relay Contact Output: 10A/240VAC (Resistive Load) Pulsed Voltage Output to Drive SSR: DC 0/24V (Min. 250 ohm) Current Output: 4~20mA (Resistive 600 ohm Max.) Continuous Voltage Output: 1~5V, 0~10V (Resistive Min. 600 ohm)
General	Rated Voltage 90~264V AC, 50/60Hz ; DC 24V Ambient Temperature/Humidity: 0~50°C, 0~90% RH Power Consumption less than 3VA

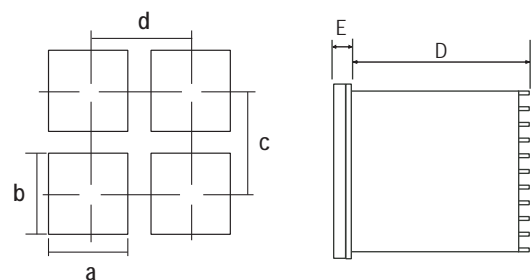
Input Type & Range

TYPE	Range - °C	Range - °F
J	-50~1000°C	-58~1832°F
K	-50~1370°C	-58~2498°F
T	-270~400°C	-454~752°F
E	-50~750°C	-58~1382°F
B	0~1800°C	32~3272°F
R	0~1750°C	32~3182°F
S	0~1750°C	32~3182°F
N	-50~1300°C	-58~2372°F
C	-50~1800°C	-58~3272°F
D-PT	-200~850°C	-328~1652°F
J-PT	-200~650°C	-328~1202°F
Linear	-1999~9999	

Alarm Function (A1FU, A2FU, A3FU)

Symbol	Description	Alarm Output Operation
nonE	No Alarm action	Alarm Output OFF
H _i	PV High Alarm	ALSP → PV
L _o	PV Low Alarm	ALSP → PV
d _i FH	Deviation High Alarm	SP+ALSP → PV
d _i FL	Deviation Low Alarm	SP+ALSP → PV
bdH _i	Band High Alarm	OFF → PV SP-ALSP SP SP+ALSP
bdL _o	Band Low Alarm	OFF → PV SP-ALSP SP SP+ALSP
t _o n	PV high alarm with delay time	ALSP → PV ALdt ON
t _o ff	PV low alarm with delay time	ALSP → PV ALdt OFF

Panel Cutout (unit: mm)



Model No.	(W x H x D)	a	b	c	d	E
VD2000	48 x 48 x 100	45+0.5	45+0.5	60	48	6
VD2001	72 x 72 x 80	68+0.5	68+0.5	90	72	9
VD2003	96 x 48 x 80	92+0.5	45+0.5	48	120	9
VD2004	96 x 96 x 80	92+0.5	92+0.5	120	96	10
SD660	96 x 48 x 80	92+0.5	45+0.5	48	120	9

HOW TO ORDER

VD2000 SD660 - K 4 R 1 O A N

Dimension	Input Type	Range	Output	Alarm Output	Control Mode	Power	OPTION
0 48x48mm 1 72x72mm 3 96x48mm 4 96x96mm	Please refer to the Input table. Normally, the initial setting is Input type "K" with Low-High limit is 0-400°C if there's no specified.	1 0~100°C 2 0~200°C 3 0~300°C 4 0~400°C 5 0~500°C 12 0~1200°C	R Relay P SSR A 4~20mA B 0~20mA C 0~5V D 0~10V	1 One Alarm Output 2 Two Alarm Outputs 3 Three Alarm Outputs	O ON/OFF P P D PD	A AC 90~264V 50/60Hz B DC 24V	N None R Retransmission C RS-485 communication

□ : Function is option with additional charge.
Note : Range for (LoL & HiL) could be specified when ordered, ex) 0~200°C, -50~200°C