VD Series Low Cost Temperature Controller

Feature:

- T/C, RTD, Linear Input selection.
- P, PD, ON/OFF control mode selection.
- Universal power supply : 90~264V AC, 50/60Hz. DC24 is also available for option.
- 3 Alarm output. (Note 1)
- Standby and Latch mode can be combined with 8 different alarm functions.
- Retransmission or RS-485 communication(MODBUS RTU) is available for option.

Note1: 2nd and 3rd Alarm are available for option.

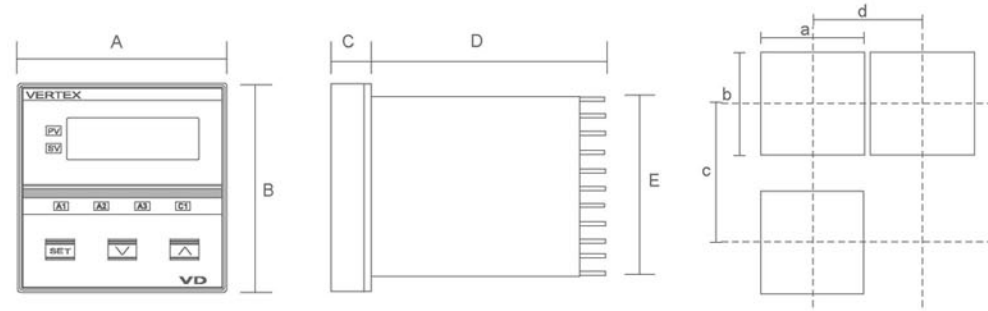
Specifications	
Input	Thermocouple: J. K. T. E. B. R. S. N.C
	RTD: DIN PT-100; JIS PT-100
	Linear: 4~20mA; 0~50mV; 1~5V; 0~10V…
Accuracy	T/C±1°C; RTD±0.2°C; Linear±3 μV
Sampling Time	0.25 sec.
Control	P Control: Proportional Band: 0.0~300.0% F.S
	PD Control: Proportional Band: 0.0~300.0% F.S;
	Derivative Time : 0~900 sec.
	ON / OFF Control: Hysteresis 0~2000
Cycle Time (0~100)	Relay 15 sec.
	Current Output (SSR) 1 sec.
	Continuous Current (Voltage): 0 sec.
Output	Relay Contact Output: 10A/ 240 VAC (Resistive load)
	Pulsed Voltage Output to Drive SSR: DC 0/24V
	(Resistive 250Ω min.)
	Current Output: 4~20mA; (Resistive 600Ω max.)
	Continuous Voltage Output: 0~50mV; 1~5V; 0~10V.....
	(Resistive 600Ω min.)
General	Rated Voltage: AC 90~264VAC 50 / 60Hz; DC 24V
	Ambient Temperature: 0~50°C
	Ambient Humidity: 0~90 %
	Consumption: Less than 3VA

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

Alarm Functions	
PV High Alarm	PV Low Alarm
Deviation High Alarm	Deviation Low Alarm
Band High Alarm	Band Low Alarm
PV High Alarm with Delay Time	PV Low Alarm with Delay Time

VERTEX

Dimension

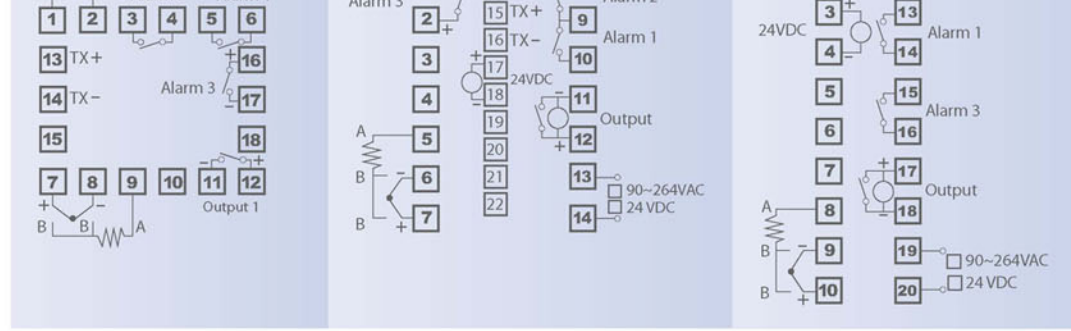


(Unit: mm)

PANEL CUTOUT :

Model	A	B	C	D	E	a	b	c	d
VD2000	48	48	6	100	45	$45^{+0.5}$	$45^{+0.5}$	60	48
VD2001	72	72	9	80	67	$68^{+0.5}$	$68^{+0.5}$	90	72
VD2003	96	48	9	80	45	$92^{+0.5}$	$45^{+0.5}$	48	120
VD2004	96	96	10	80	91	$92^{+0.5}$	$92^{+0.5}$	120	96

Wiring Diagram



Ordering Information

VD260 ☐ ☐ ☐ ☐ ☐ ☐ ☐

Size	Code
48mmx48mm	0
72mmx72mm	1
96mmx48mm	3
96mmx96mm	4

Input	Code
Thermocouple	T
RTD	D
Linear	L

Control output	Code
Relay	R
SSR	P
4~20mA DC	M
0~10V	V
Other	O

Alarm	Code
1Alarm	1
2Alarm	2
3Alarm	3

Control	Code
ON/OFF	O
P	P
PD	D

Option	Code
None	N
4~20mA retransmission	R
RS-485	C
0~10V retransmission	V

Control output	Code
AC 90~264V 50/60 Hz	A
DC 24V	D

Note 1: If input code "L" is selected, please specify the input Signal and scale, for example: 4~20mA, 0.0~100.0

Note 2: If output code "O" is selected, please specify the output Signal, for example: 1~5V