

# VT9621 Fuzzy Enhanced PID Dual Channel Controller

## Feature:

- Standard :
- ▶ Independent dual input channel.
  - ▶ T/C, RTD, Linear input selection.
  - ▶ Fuzzy enhanced PID control.
  - ▶ Auto / Manual Bumpless Transfer.
  - ▶ Two alarm output.
  - ▶ Ramp function.
  - ▶ Soft- start function.
  - ▶ Auxiliary DC24V power supply to drive transmitter.
  - ▶ Universal power supply : 90-264V AC, 50/60Hz.
- Optional :
- ▶ Output 2 for cooling control.
  - ▶ PV or SV retransmission.
  - ▶ Master & Slaver transmission.
  - ▶ RS-485 communication. (MODBUS RTU)
  - ▶ Power supply : DC 24V

Applications : Indicator / Controller for Temperature, Humidity, Air-Conditioning, Gas Detector, DC Current/Voltage, Pressure ...etc. with retransmission, RS485



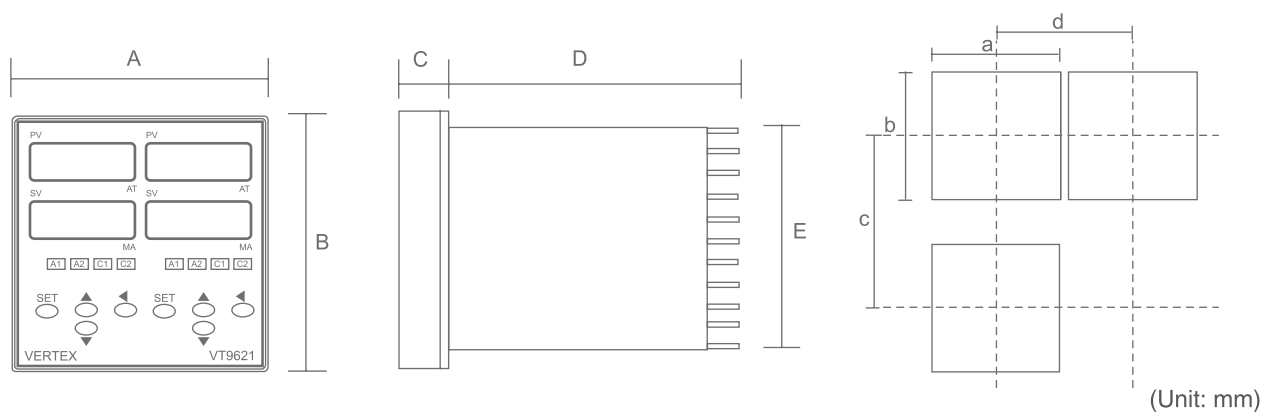
VT-9621

Specifications	
Input	Thermocouple: J, K, T, E, B, R, S, N, C
	RTD: DIN PT-100; JIS RT-100
	Linear: 4~20mA; 0~50mV; 1~5V; 0~10V...
Accuracy	T/C $\pm$ 1 $^{\circ}$ C; RTD $\pm$ 0.2 $^{\circ}$ C; Linear $\pm$ 3 $\mu$ V
Sampling Time	0.25 sec.
Control	Proportional Band: 0.0~300.0% F.S
	Integral Time: 0~3600 sec.
	Derivative Time : 0~900 sec.
	Hysteresis: 0.0~200.0 or 0~2000
	Cycle Time: 0~100 sec.
Output Cycle Time	Relay 15 sec.
	Pulsed Voltage to Drive SSR: 1sec.
	Continuous Current (Voltage): 0 sec.
Output	Relay Contact Output: 10A/ 240 VAC (Resistive load)
	Pulsed Voltage Output to Drive SSR: DC 0/24V (Resistive 250 $\Omega$ min.)
	Current Output: 4~20mA (Resistive 600 $\Omega$ max.)
	Continuous Voltage Output: 0~50mV; 1~5V; 0~10V..... (Resistive 600 $\Omega$ min.)
General	Rated Voltage: AC 90~264V 50 / 60Hz; DC 24V
	Ambient Temperature: 0~50 $^{\circ}$ C
	Ambient Humidity: 0~90 %
	Consumption: Less than 5VA

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

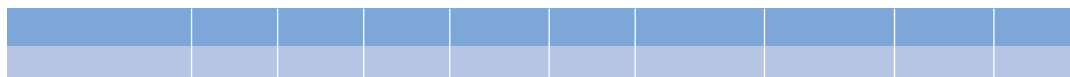
Alarm Functions	
PV High Alarm	PV Low Alarm
Deviation High Alarm	Deviation Low Alarm
Band High Alarm	Band Low Alarm
PV High Alarm with Delay Time	PV Low Alarm with Delay Time

### Dimension

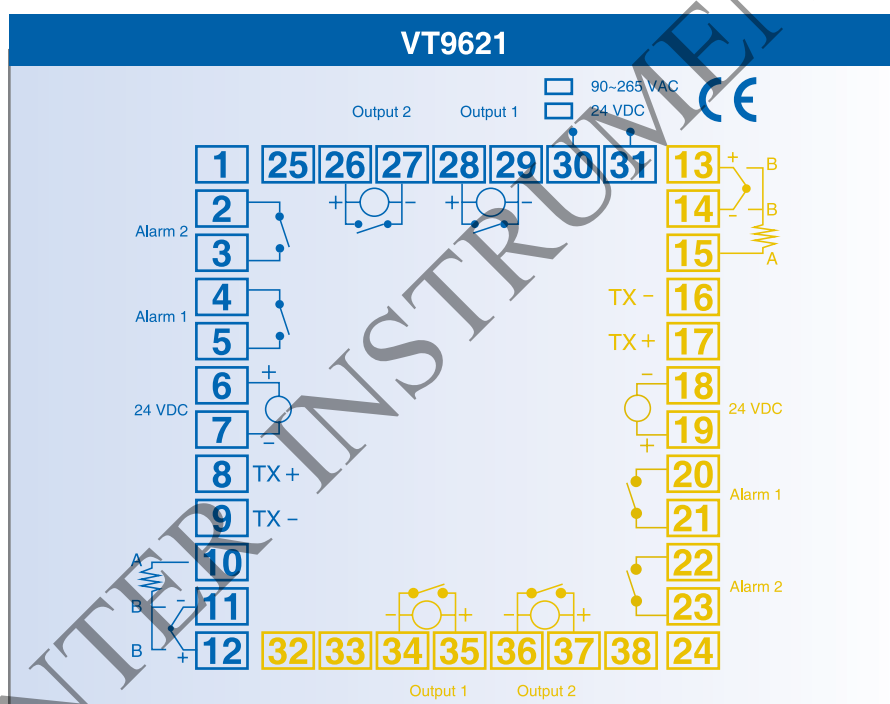


(Unit: mm)

PANEL CUTOUT :



### Wiring Diagram



### Ordering Information

VT 9621 — 1 2 3 4 5 / 1 2 3 4 5

Input	<span style="border: 1px solid black; padding: 2px;">1</span> <span style="border: 1px solid black; padding: 2px;">1</span> Code	Output 1 (Heating)	<span style="border: 1px solid black; padding: 2px;">2</span> <span style="border: 1px solid black; padding: 2px;">2</span> Code	Output 2 (Cooling)	<span style="border: 1px solid black; padding: 2px;">3</span> <span style="border: 1px solid black; padding: 2px;">3</span> Code	Selection	<span style="border: 1px solid black; padding: 2px;">4</span> <span style="border: 1px solid black; padding: 2px;">4</span> Code	Power Supply	<span style="border: 1px solid black; padding: 2px;">5</span> <span style="border: 1px solid black; padding: 2px;">5</span> Code
T/C	T	None	N	None	N	None	N	AC90~264V	A
RTD	D	Relay	R	Relay	R	RS-485	C	50 / 60Hz	
Linear	L	SSR	P	SSR	P	Retransmission	R	DC24V	D
		4-20mA DC	M	4-20mA DC	M	Master	M		
		Continuous Voltage	V	Continuous Voltage	V	Slaver	S		