



Vsol Temperature Controller V-FZZ

Temperature Controller

Features :

- 4+4 Digits, 7 Segment LED dual display
- Universal input
- ON - OFF/ PID control
- °C/°F selectable
- Heat cool PID
- Ramp soak
- Soft start
- RS485 Communication MODBUS RTU Protocol
- Retransmission analog output



Technical specifications

Display specifications	
Display	4+4 digits 7 Segment LED dual display
Height of display	Upper display: 10mm, Lower display: 7mm
LED indication	1: Main output ; 2, 3: Alarm output ; M: Manual output ; T: Tune
Input specifications	
Inputs	Thermocouple (J, K, T, R, S, C, E, B, N, L, U, W, Platine II), RTD (PT100) Signal inputs (-5 to 56mV, 0 to 10V, 0 to 20mA DC) (Programmable scale type)
Resolution	1/ 0.1 for TC/ RTD only (fixed 1° resolution for R & S type TC) Decimal point position selectable : 1/ 0.1/ 0.01/ 0.001 for analog input
Indication accuracy	For TC inputs: 0.25% of F.S. ±1° For R & S type TC inputs: 0.5% of F.S. ±2° (20 min of warm up time for TC inputs) For RTD input: 0.1% of F.S. ±1° For Analog input: ±0.5%, ±1° digit (F.S. = Full scale)
Temperature unit	°C/°F selectable
Input filter (FTC)	1 to 99 sec, OFF
Sampling time	200 ms
Output specifications	
Control output (Optional)	1
Contact rating (SPST)	5A @ 230 VAC/ 30 VDC, resistive
SSR drive (Voltage pulse)	12 VDC, 20 mA
Current	4 to 20mA DC (loop impedance: 500Ω max)
Voltage	0 to 10 VDC (load resistance: 10KΩ min)
Auxiliary output (Optional)	2
Contact rating (SPST)	5A @ 230 VAC / 30 VDC
SSR drive	12 VDC, 20 mA
Retransmission	
Current	4 to 20mA DC (loop impedance : 500Ω max)
Voltage	0 to 10 VDC (load resistance : 10KΩ min)
Update rate	100 msec

Functional specifications

Control action	1) PID Control 2) ON-OFF contr
Proportional band (P)	0.0 to 400.0°C
Integral time (I)	0 to 3600 sec
Derivative time (D)	0 to 200 sec
Cycle time	0.1 to 100.0 sec
Hysteresis width	0.1 to 99.9°
Manual reset value	-19.9 to 19.9°

Heat-cool

Control action	PID/ ON-OFF
Proportional band-cool	0.0 to 400.0°
Cycle time-cool	0.1 to 100 sec
Dead band	Programmable from set point low limit to set point high limit.

Settings for alarm output

Modes	Deviation high/ low, Absolute high/ low, Band, Sensor break
Hysteresis	0.1 to 99.9°
Ramp rate	1 to 9999°/ hr
Soak time	0 to 1440 min
Soft start time	0 to 999 min

Auxiliary supply specifications

Supply voltage	90 to 270 VAC/ DC (50/ 60Hz)
Power consumption	5 VA max @ 230 VAC

Environment specifications

Temperature	Operating: 0°C to 50°C (32 to 122°F); Storage: 20°C to 75°C (-4 to 167°F)
Humidity (non - condensing)	85% RH

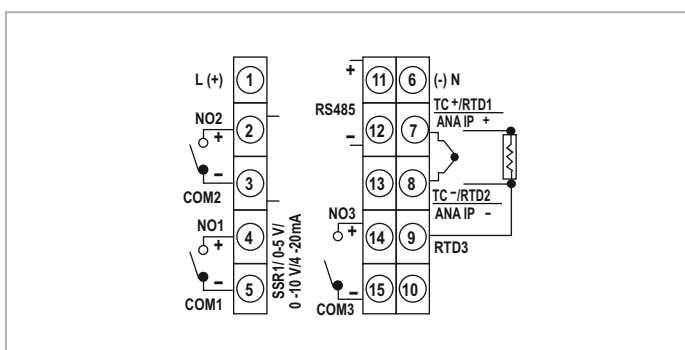
Mechanical specifications

Mounting	Panel
Weight	105 gms

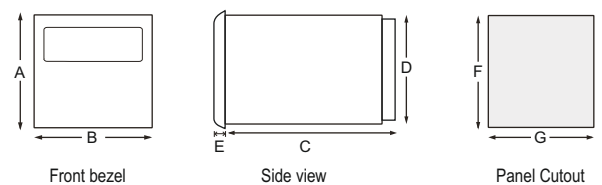
Optional specifications

Serial communication	
Interface standard	RS485
Communication address	1 to 99, maximum of 32 units per line
Transmission mode	Half duplex
Transmission protocol	MODBUS RTU
Transmission distance	500 m maximum
Transmission speed	9600, 4800, 2400, 1200, 600, 300 bits/ sec
Parity	None, Odd, even
Stop bits	1 or 2
Response time	100 ms (Max and independent of boud rate)

Terminal connections



Dimensions (All are in mm)



MODEL	DIM	A	B	C	D	E	F	G
V-FZZ		52	52	100	45	4	46	46



Contact Us

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Made in Hungary