



## Features

- RTD : Pt-100 Temperature Input
- Input Signal Conditioning (Digital Filter & Zero Offset)
- F0 calculation at the end of Sterilization
- Drying facility to avoid high outrush of pressure
- Sterilization Timer with Guaranteed Soak Time
- High Temperature Safety Alarm
- Automatic Cycle Abortion at High Temperature Limit
- Computed Saturated Steam Pressure Display
- Independent Air Purging and Sterilization Setpoint
- Independent Outputs for Air Outlet & Steam Control
- Front / Remote Sterilization Cycle Start Command
- Optional Serial Communication Port
- Water Level Switch Input
- Universal supply voltage (90 to 270 VAC)
- 24 VDC Available on Request

## Display Specification

Digits	: Dual 4 Digits 7 Segment LED Display
LED Indication	: HTR - Heater Output Status P/E - Purge / Exhaust Status ALM - Alarm Output Status LWL - Low Water Level Status AT - Auto Tune Status ST - Soak Timer Running Status SP - LDSP will show SP1 PR - LDSP will show Pressure ST, SP, PR - All Off : LDSP will show Input 2 value

Height	Model	VA-Clave
	PV (White)	0.80"
	SV (Green)	0.56"

## Input Specification

Input 1	: RTD - Pt-100
Resolution (Input 1)	: Pt-100 - 0.1°C
Input 2	: 4-20 mA, 0-10 V
Resolution (Input 2)	: 0 / 0.1 / 0.01 / 0.001
Accuracy	: 0.3% FS
Temperature Unit	: °C
Sampling Rate	: 250msec

## Output Specification

Heater Output	: Relay / SSR Drive (Selectable)
Purge / Exhaust Output	: Relay / SSR Drive (Factory Set)
Alarm Output	: Relay / SSR Drive (Factory Set)
Relay	: 5A @ 250VAC / 30VDC
SSR Drive	: 12 VDC @ 30mA

## Functional Specification

Hold Back Strategy	: Up / Down / Both
Power Fail Recovery	: Abort / Continuous / Repeat
Pressure Unit	: PSI / Kgcm
Serial Communication Protocol	: RS-485 / Half Duplex
Excitation Voltage	: 5V / 10V / 12V / 24V (Jumper Selectable)

## Auxiliary Supply Specification

Supply Voltage	: 90 - 270 VAC (24 VDC Available on Request)
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## Environmental Specification

Temperature	: Operating - 0 to 50°C
Storage	: -20° to 75°C
Humidity	: 95% RH (Non-condensing)

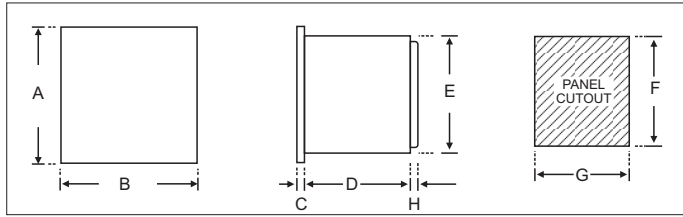
## General Description

Model	VA-Clave
Weight (Gms)	300

## Certification

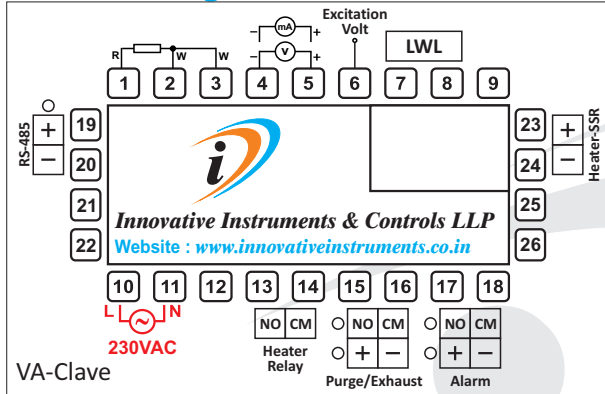
None

## Mechanical Dimensions



Dim Model	A	B	C	D	E	F	G	H
VA-Clave	96	96	10	65	89	92	92	9

## Terminal Diagram



## Order Code : VA-Clave

Size	O/P1 - Heater	O/P2 - P/E	O/P3 - Alarm	Communication	Excitation	Supply
9 (96X96X65)	0 (None)	0 (None)	0 (None)	0 (None)	05 (05 VDC)	A (90 ~ 270 VAC)
	1 (Relay)	1 (Relay)	1 (Relay)	B (RS-485)	10 (10 VDC)	D (24 VDC)
	2 (SSR)	2 (SSR)	2 (SSR)		12 (12 VDC)	
					24 (24 VDC)	

## Example : VA-Clave-111-B24A

Size	O/P1 - Heater	O/P2 - P/E	O/P3 - Alarm	Communication	Excitation	Supply
99	1	1	1	B	24	A
9 (96X96X65)	1 (Relay)	1 (Relay)	1 (Relay)	B (RS-485)	24 (24 VDC)	A (90 ~ 270 VAC)

## Temperature Input

Sensor Input	Range	Resolution	Accuracy
Pt-100(RTD.1)	0.0 ~ 150.0 °C	0.1 °C	± 0.3 °C

## Pressure Input

Sensor Input	Range	Resolution
0 ~ 10 V	-1999 ~ 9999	0 / 0.1 / 0.01/ 0.001
4 ~ 20 mA	-1999 ~ 9999	0 / 0.1 / 0.01 / 0.001