

Clavex Plus (PC + PRINTER)

Advanced Autoclave Controller with Recording + 4 Channel Mapping
+ Pressure Indication with PC Software & Printer Interface

Operation Manual

This brief manual is primarily meant for quick reference to wiring connections and parameter searching. For more details on operation and application; please log on to www.ppiindia.net

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OPERATOR PARAMETERS	
Parameter	Settings (Default Value)
Select Prnt Option>>	None Print (New) Re-Print (Old) (Default : None)
Ster. Temp SP>>	Setpoint LO Limit to Setpoint HI Limit (Default : 121.0 °C)
Air Outlet SP>>	Setpoint LO Limit to Setpoint HI Limit (Default : 100.0 °C)
Ster. Time (min)>>	1 to 999 (Default : 20 min)
Change Password >>	1 to 100 (Default : 0)

SUPERVISORY > DEVICE	
Parameter	Settings (Default Value)
Rec. Interval (sec) >>	1 to 300 Sec (Default : 60 Sec.)
RTC Time >>	0 to 23 for Hour 0 to 59 for Min (Default : NA)
RTC Date >>	1 to 31 (Default : NA)
RTC Month >>	1 to 12 (Default : NA)
RTC Year >>	2000 to 2099 (Default : NA)
Device Id >>	1 to 127 (Default : 1)

SUPERVISORY > CONTROL	
Parameter	Settings (Default Value)
Setpoint LO Limit >>	0 to Setpoint HI Limit (Default : 90 °C)
Setpoint HI Limit >>	Setpoint LO Limit to 600 °C (Default : 150 °C)
Overshoot Temp >>	Ster. Temp SP to Setpoint HI Limit (Default : 131 °C)
Ctrl PV Strategy >>	PV on Map-1 Average PV PV Map1 Fail-average PV Min Max (Default : PV on Map-1)
Cycle End Strategy >>	Immediate Stop Timer Based Stop Temp Based Stop (Default : Immediate Stop)
Cycle End Timer >>	1 to 60 Minutes (Default : 5 Min)
Cycle End Temp >>	Setpoint LO Limit To Sterilization Temp (Default : 100 °C)
Ctrl Band >>	0.1 to 99.9 (Default : 0.2 °C)
EOP Alm Time(sec) >>	0 to 250 Sec. (Default : 10 Sec)
Hold Pressure >>	Min. to Max. Pressure Range set for the Pressure Sensor (Default : 15 psi)

SUPERVISORY > STERILIZATION	
Parameter	Settings (Default Value)
Steri. Stop Temp >>	Air Outlet SP to Sterilization Temp (Default : 120.5 °C)
Steri. Reset Temp >>	Air Outlet SP to Sterilization Temp (Default : 120.0 °C)

SUPERVISORY > PV OFFSET	
Parameter	Settings (Default Value)
Pressure Offset >>	-50.0 to 50.0 (Default : 0)
Map-1 Offset >>	-50.0 to 50.0 (Default : 0)
Map-2 Offset >>	-50.0 to 50.0 (Default : 0)
Map-3 Offset >>	-50.0 to 50.0 (Default : 0)
Map-4 Offset >>	-50.0 to 50.0 (Default : 0)

SUPERVISORY > PASSWORD	
Parameters	Settings (Default Value)
Change Password >>	1000 to 1999 (Default : 123)

SUPERVISORY > PRINTER SETTING	
Parameters	Settings (Default Value)
Line Per Page >>	25 to 100 (Default : 60)
Top Margine >>	1 to 5 (Default : 2)
Bottom Margine >>	1 to 5 (Default : 2)
Header & Footer >>	No On First Page Every Page (Default : No)
Enable >>	Yes No (Default : No)

SUPERVISORY > EXIT	
Parameters	Settings (Default Value)
Exit Setup Mode >>	Yes No (Default : No)

FACTORY > TEMPERATURE INPUT			
Parameters	Settings (Default Value)		
Mapping Channles >>	1 to 4 (Default : 4)		
Input Type >>	RTD Pt100 0-20mA 4-20mA 0-5V 0-10V 1-5V (Default : RTD Pt100)		
Signal LO >>	Input Type	Settings	Default
	0 to 20mA	0.00 to Signal High	0.00
	4 to 20mA	4.00 to Signal High	4.00
	0 to 5V	0.000 to Signal High	0.000
	0 to 10V	0.00 to Signal High	0.00
	1 to 5V	1.000 to Signal High	1.000
Signal HI >>	Input Type	Settings	Default
	0 to 20mA	Signal Low to 20.00	20.00
	4 to 20mA	Signal Low to 20.00	20.00
	0 to 5V	Signal Low to 5.000	5.000
	0 to 10V	Signal Low to 10.00	10.00
	1 to 5V	Signal Low to 5.000	5.000

FACTORY > DIGITAL INPUTS			
Parameter	Settings (Default Value)		
Remote Cycle Start >>	Yes No (Default : No)		
Water Level Detect >>	Yes No (Default : No)		
Water Level Logic >>	Open : Water Lo Close : Water Lo (Default : Close : Water Lo)		
Door Open Detect >>	Yes No (Default : No)		
Door Open Logic >>	Close : Door Open Open : Door Open (Default : Close : Door Open)		

FACTORY > PRESSURE INPUT			
Parameters	Settings (Default Value)		
Pressure Enable >>	Yes No (Default : No)		
Units >>	Psi Kg/cm ² Bar Eu (Default : Psi)		
Resolution >>	0 0.1 0.01 0.001 (Default : 0.1)		
Input Type >>	0-20mA 4-20mA 0-5V 0-10V 1-5V (Default : 0-5V)		
Signal LO >>	Input Type	Settings	Default
	0 to 20mA	0.00 to Signal High	0.00
	4 to 20mA	4.00 to Signal High	4.00
	0 to 5V	0.000 to Signal High	0.000
	0 to 10V	0.00 to Signal High	0.00
	1 to 5V	1.000 to Signal High	1.000
Signal HI >>	Input Type	Settings	Default
	0 to 20mA	Signal Low to 20.00	20.00
	4 to 20mA	Signal Low to 20.00	20.00
	0 to 5V	Signal Low to 5.000	5.000
	0 to 10V	Signal Low to 10.00	10.00
	1 to 5V	Signal Low to 5.000	5.000
Range LO >>	-1999 to RANGE HI (Default : 0.0)		
Range HI >>	RANGE LO to 9999 (Default : 100.0)		

FACTORY > FACTORY DEFAULT	
Parameters	Settings (Default Value)
Set To Default >>	Yes No (Default : No)

FACTORY > PASSWORD	
Parameters	Settings (Default Value)
Change Password >>	2000 to 2999 (Default : 321)

FACTORY > EXIT	
Parameters	Settings (Default Value)
Exit Setup Mode >>	Yes No (Default : No)

FRONT PANEL LAYOUT

Keys Operation

Symbol	Key	Function
	Scroll	Press to scroll through various Process Information Screens in Normal Operation Mode.
	ACK	Cycle Start & Alarm Acknowledge
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping pressed speeds up the change.
	SET-UP	Press to enter or exit set-up mode.
	ENTER	Press to store the set parameter value and to scroll to the next parameter.

PV Error Indications

Message	Error Type	Cause
OPEN	Sensor Open	Sensor (RTD Pt100) Broken / Open
OVR	Over-range	Temperature above Max. Specified Range
UNR	Under-range	Temperature below Min. Specified Range

