

Clavex Pro & Clavex Pro 96

Enhanced
Autoclave Sterilization Controller

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 : PAGE 0	
Parameters	Settings (Default Value)
Control Setpoint SP	Setpoint Low Limit to Setpoint High Limit (Default : 121.0)
Air Outlet Setpoint Ar.SP	Setpoint Low Limit to Setpoint High Limit (Default : 100.0)
Soak Time SoPt	1 to 999 Minutes (Default : 20)
High Alarm Deviation Setpoint ALSP	1 to 10 or 0.1 to 10.0 (Default : 5.0)
Fail-Safe Deviation Setpoint SFSP	3 to 20 or 0.3 to 20.0 (Default : 10.0)
Cycle Abort Command Abt	no No YES Yes
Cycle Abort Pass Code Code	0 to 250 (Default : 0)

I/O CONFIGURATION PARAMETERS : PAGE 10	
Parameters	Settings (Default Value)
Input Type InPt	rtD RTD Pt100, 1°C rtD.1 RTD Pt100, 0.1°C (Default: RTD Pt100, 0.1°C)
Hysteresis HYSt	1 to 999°C or 0.1 to 999.9°C (Default : 0.2)
Setpoint Low Limit SPLo	Min. Range for the selected Input Type to Setpoint High (Default : 90.0)
Setpoint High Limit SPHi	Setpoint Low to Max. Range for the selected Input Type (Default : 150.0)
Units for Pressure Unit (48x48 version only)	KGcm² Kg/cm² PSI PSI (Default : Kg/cm²)

PRESSURE PARAMETERS : PAGE 12			
Available only in 96x96 version			
Parameters		Settings (Default Value)	
Pressure Type			
P.tYP		none None	
		Comp Computed	
		MEsu Measure	
		(Default : None)	
Pressure Unit			
Unit		KGcm Kg/cm²	
		PSI PSI	
		Bar Bar	
		EU EU	
		(Default : Kg/cm²)	
Resolution			
rSLn		1 1	
		0.1 0.1	
		0.01 0.01	
		0.001 0.001	
		(Default : 0.1)	
Input Type			
P.InP		0-20 0 to 20mA	
		4-20 4 to 20mA	
		5.0 0 to 5.0V	
		10.0 0 to 10.0V	
		1-5 1 to 5.0V	
		(Default : 0 to 5.0V)	
Signal Low			
SGLo			
	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 1.25 V	0.00 to Signal High	0.00
	0 to 5 V	0.000 to Signal High	0.000
	0 to 10 V	0.00 to Signal High	0.00
	1 to 5 V	1.000 to Signal High	1.000
Signal High			
SGHi			
	Input Type	Settings	Default
	0 to 20mA	20.00 to Signal Low	20.00
	4 to 20mA	20.00 to Signal Low	20.00
	0 to 1.25 V	1.250 to Signal Low	1.250
	0 to 5 V	5.000 to Signal Low	5.000
	0 to 10 V	10.00 to Signal Low	10.00
	1 to 5 V	5.000 to Signal Low	5.000

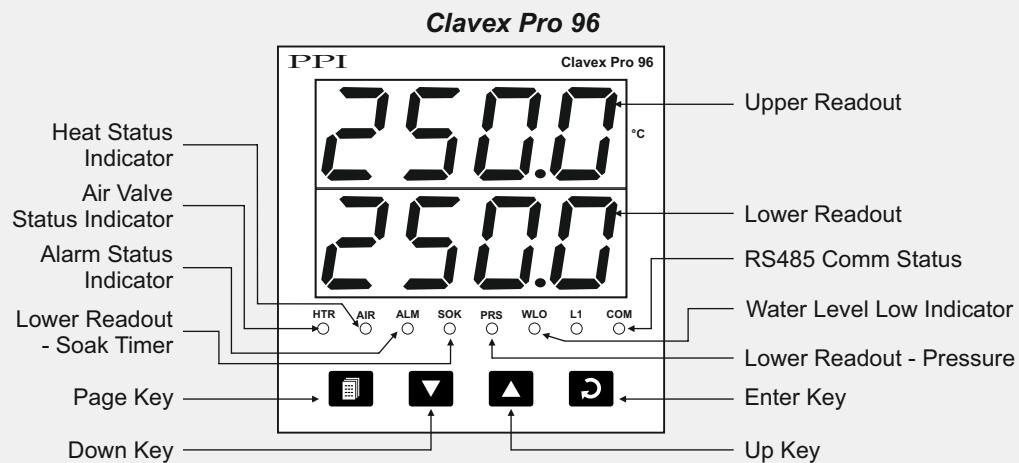
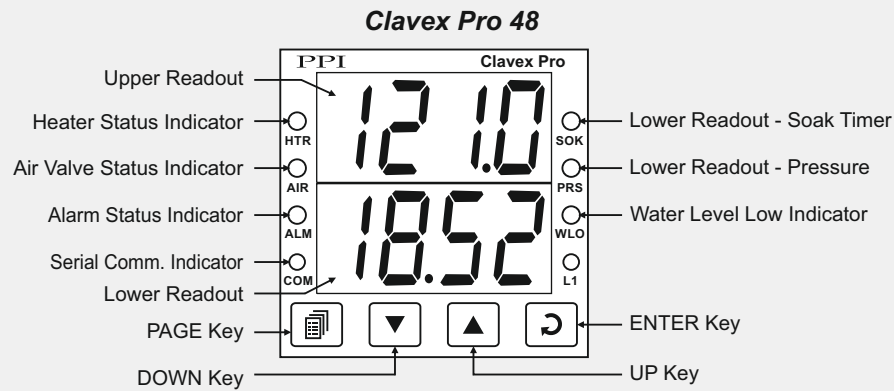
Parameters	Settings (Default Value)
Range Low rLo	-1999 to 9999 (Default : 0.0)
Range High rHi	-1999 to 9999 (Default : 1000)
Zero Offset POFS	-1999 to 9999 (Default : 0.0)
Digital Filter PFLT	0.5 to 25.0 (Default : 1.0)

SOAK TIMER PARAMETERS : PAGE 15	
Parameters	Settings (Default Value)
Soak Time SoPt	1 to 999 Minutes (Default : 20)
Timer-Start Band Sbnd	1 to 5 or 0.1 to 5.0 (Default : 1.0)
Holdback Strategy HOLD	none None UP Up dn Down both Both (Default : Down)
Hold Band Hbnd	1 to 5 or 0.1 to 5.0 (Default : 1.0)
End-of-Soak Alarm Time EOSt	5 to 250 Sec. (Default : 10 Sec.)
Power-fail Recovery Method PrFL	Abt Abort St (Re)Start Cont Continue (Default : Continue)

SUPERVISORY PARAMETERS : PAGE 11	
Parameters	Settings (Default Value)
Offset for Temperature Value OFSt	-1999 to 9999 or -199.9 to 999.9 (Default : 0.0)
Digital Filter for Temperature Value FLtr	0.5 to 25.0 Seconds in steps of 0.5 Seconds (Default : 1.0)
Operator Parameter Locking OPrL	no No YES Yes (Default : No)
Pass Code for Cycle Abort Code	1 to 250 (Default : 22)
Slave ID Id	1 to 127 (Default : 1)
Baud Rate baUD	48 4800 96 9600 192 19200 (Default : 9600)
Parity PRr	none None Even Even Odd Odd (Default : Even)
Communication Write Enable ConE	no No YES Yes (Default : Yes)
Water Level Switch Logic LLC	OPEn Open CLOS Close (Default : Open)
Pressure View PSEn (48x48 version only)	dsbL Disable EnbL Enable (Default : Enable)

ADDITIONAL CONTROL PARAMETER : PAGE 50	
Parameters	Settings (Default Value)
Setpoint Offset SPOF	0.0 to 10.0 (Default : 0.0)

FRONT PANEL LAYOUT



Keys Operation

Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	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; holding pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

PV Error Indications

Message	Error Type	Cause
Temperature		
	Over-range	PV above Max. Range
	Under-range	PV below Min. Range
	Sensor Open	Sensor Open / broken
Pressure		
	Generic	Computed / Measured PV out of range

ELECTRICAL CONNECTIONS

