

I/O CONFIGURATION PARAMETERS : PAGE-10	
Parameters	Settings (Default Value)
Input Type <b>INPT</b>	Refer Table 1 (Default : Type K)
Temperature Display Units <b>Unit</b>	<b>OC</b> °C <b>OF</b> °F (Default : °C)
Temperature Range <b>RRNG</b>	Min. to Max. specified for the selected Input Type (Refer Table 1) (Default : 1375)
Control Output Type <b>COP</b>	Refer Table 2 (Default : Relay)
Control Mode <b>Ctrl</b>	<b>OnOff</b> On-Off <b>PID</b> PID (Default : PID)
Control Logic <b>CLOG</b>	<b>dir</b> Direct <b>rev</b> Reverse (Default : Reverse)
Hysteresis <b>HYS</b>	1 to 999°C or 0.1 to 99.9°C (Default : 2 or 0.2)
Setpoint Low Limit <b>SPLD</b>	Min. Range to Setpoint High for the selected Input Type (Default : -200)
Setpoint High Limit <b>SPHI</b>	Setpoint Low to Max. Range for the selected Input Type (Default : 1375)

SUPERVISORY PARAMETERS : PAGE-11	
Parameters	Settings (Default Value)
Tune / Optimize Command <b>OPT</b>	<b>no</b> No <b>yes</b> Yes (Default : No)
Tune / Optimize Abort Command <b>ABRT</b>	<b>no</b> No <b>yes</b> Yes (Default : No)
Overshoot Inhibit <b>OSH</b>	<b>enbl</b> Enable <b>dsbl</b> Disable (Default : Disable)
Overshoot Inhibit Factor <b>OSHf</b>	1.0 to 2.0 (Default : 1.2)
Self-tune on Setpoint Change <b>ENSP</b>	<b>enbl</b> Enable <b>dsbl</b> Disable (Default : Disable)
Offset for PV <b>OFSE</b>	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Digital Filter for PV <b>FLTR</b>	0.5 to 25.0 Seconds in steps of 0.5 Seconds (Default : 1.0)
Permission for OP2/OP3 Setpoint Editing on Operator Page <b>SPOP</b>	<b>enbl</b> Enable <b>dsbl</b> Disable (Default : Enable)
Soak Abort Command on Operator Page <b>SOA</b>	<b>enbl</b> Enable <b>dsbl</b> Disable (Default : Enable)
Soak Time Adjustment on Operator Page <b>SOA</b>	<b>enbl</b> Enable <b>dsbl</b> Disable (Default : Enable)

Parameters	Settings (Default Value)
Utility Option <b>OPTn</b>	<b>none</b> None <b>serl</b> Serial Comm. <b>stert</b> Soak Start (Default : None)
Slave ID <b>ID</b>	1 to 127 (Default : 1)
Baud Rate <b>BRUD</b>	1200, 2400, 4800, 9600 (Default : 9600)
Communication Write Enable <b>CONE</b>	<b>no</b> No <b>yes</b> Yes (Default : Yes)

PID CONTROL PARAMETERS : PAGE-14	
Parameters	Settings (Default Value)
% Output Power <b>OUTP</b>	Not Applicable (Default : Not Applicable)
Cycle Time <b>CT</b>	0.5 to 120.0 Seconds (in steps of 0.5 secs.) (Default : 0.5)
Proportional Band <b>Pb</b>	0.1 to 999.9 (Default : 10.0)
Integral Time <b>IT</b>	0 to 1000 Seconds (Default : 100)
Derivative Time <b>DT</b>	0 to 250 Seconds (Default : 25)

OP2 FUNCTION PARAMETERS : PAGE-12	
Parameters	Settings (Default Value)
Output-2 Function Selection <b>OP2F</b>	<b>none</b> None <b>ALrn</b> Alarm <b>Ctrl</b> Control <b>BLOR</b> Blower <b>SSOP</b> Set point (Default : None)

OP2 Function : Alarm-1	
Parameters	Settings (Default Value)
Type <b>AL-1</b>	<b>P_Lo</b> Process Low <b>P_Hi</b> Process High <b>dEu</b> Deviation Band <b>bAnd</b> Window Band <b>EoS</b> End of Soak (Default : Process Low)
Setpoint <b>A1SP</b>	Min. to Max. Range for the selected Input type (Default : 0)
Deviation Band <b>A1dE</b>	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Window Band <b>A1bA</b>	3 to 999 or 0.3 to 99.9 (Default : 3)
Logic <b>A1LG</b>	<b>norm</b> Normal <b>rev</b> Reverse (Default : Normal)
Inhibit <b>A1h</b>	<b>yes</b> Yes <b>no</b> No (Default : Yes)
Alarm Timer <b>A1tA</b>	5 to 250 Seconds (Default : 10)

OP2 Function : Auxiliary Control	
Parameters	Settings (Default Value)
Offset Value <b>SP2</b>	(Min. Range - SP) to (Max. Range - SP) specified for the selected Input Type (Default : 0)
Hysteresis <b>HYS3</b>	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Control Logic <b>LOG3</b>	<b>norm</b> Normal <b>rev</b> Reverse (Default : Normal)

OP2 Function : Blower / Compressor Control	
Parameters	Settings (Default Value)
Offset Value <b>BLSP</b>	0 to 250 or 0.0 to 25.0 (Default : 0)
Hysteresis <b>BLHY</b>	1 to 250 or 0.1 to 25.0 (Default : 2 or 0.2)
Time Delay <b>EDLY</b>	00.00 to 10.00 Min. Sec (in steps of 5 Seconds) (Default : 00.00)

OP3 FUNCTION PARAMETERS : PAGE-13	
Parameters	Settings (Default Value)
Output-3 Function Selection <b>OP3F</b>	<b>none</b> None <b>ALrn</b> Alarm <b>Ctrl</b> Control (Default : None)

OP3 Function : Alarm-2	
Parameters	Settings (Default Value)
Type <b>AL-2</b>	<b>P_Lo</b> Process Low <b>P_Hi</b> Process High <b>dEu</b> Deviation Band <b>bAnd</b> Window Band <b>EoS</b> End of Soak (Default : Process Low)
Setpoint <b>A2SP</b>	Min. to Max. Range for the selected Input type (Default : 0)
Deviation Band <b>A2dE</b>	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Window Band <b>A2bA</b>	3 to 999 or 0.3 to 99.9 (Default : 3)
Logic <b>A2LG</b>	<b>norm</b> Normal <b>rev</b> Reverse (Default : Normal)
Inhibit <b>A2h</b>	<b>yes</b> Yes <b>no</b> No (Default : Yes)
Alarm Timer <b>A2tA</b>	5 to 250 Seconds (Default : 10)

OP3 Function : Auxiliary Control	
Parameters	Settings (Default Value)
Offset Value <b>SP3</b>	(Min. Range - SP) to (Max. Range - SP) specified for the selected Input Type (Default : 0)
Hysteresis <b>HYS3</b>	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Control Logic <b>LOG3</b>	<b>norm</b> Normal <b>rev</b> Reverse (Default : Normal)

SOAK TIMER PARAMETERS : PAGE-15	
Parameters	Settings (Default Value)
Timer Enable <b>SEnb</b>	<b>no</b> No <b>yes</b> Yes (Default : No)
Time Units <b>Unit</b>	<b>min</b> Min:Sec <b>HHmm</b> Hours:Min <b>Hour</b> Hours (Default : Min:Sec)
Time Duration <b>SOPE</b>	00.05 to 60:00 Min:Sec 00.05 to 99:55 Hrs:Min 1 to 999 Hours (Default : 00.10 Min:Sec)
Timer-Start Band <b>Sbnd</b>	0 to 9999 or 0.0 to 999.9 (Default : 5 or 0.5)
Holdback Strategy <b>HOLD</b>	<b>none</b> None <b>UP</b> Up <b>dn</b> Down <b>both</b> Both (Default : None)
Hold Band <b>Hbnd</b>	1 to 9999 or 0.1 to 999.9 (Default : 5 or 0.5)
Switch-Off Control Output at Timer End <b>OPDF</b>	<b>no</b> No <b>yes</b> Yes (Default : No)
Power-fail Recovery Method <b>PrFL</b>	<b>Cont</b> Continue <b>stert</b> (Re)Start <b>Abrt</b> Abort (Default : Continue)

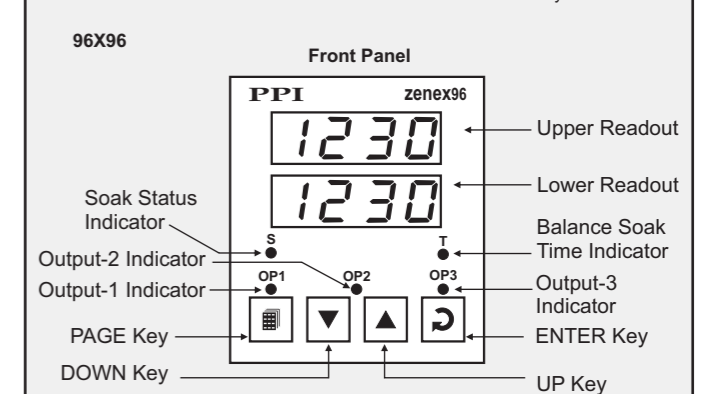
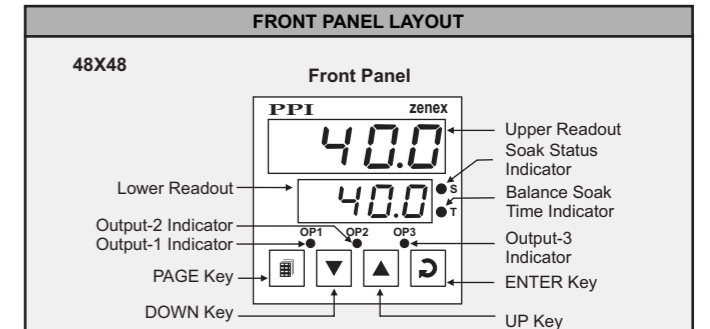
OPERATOR PAGE AND PARAMETERS	
Parameters	Settings
Timer Start Command <b>stert</b>	<b>no</b> No <b>yes</b> Yes
Timer Abort Command <b>Abrt</b>	<b>no</b> No <b>yes</b> Yes
Time Duration <b>SOPE</b>	00.05 to 60.00 M:Sec or 00.05 to 99.55 H:M or 1 to 999 Hours
OP2 Function : Alarm-1	
Alarm-1 Setpoint <b>A1SP</b>	Min. to Max. Range for the Input Type
Alarm-1 Deviation Band <b>A1dE</b>	-1999 to 9999 or -199.9 to 999.9
Alarm-1 Window Band <b>A1bA</b>	3 to 999 or 0.3 to 99.9
OP2 Function : Auxiliary Control	
Auxiliary Control Setpoint <b>SP2</b>	(Min. Range - SP) to (Max. Range - SP) for selected Input
OP2 Function : Blower / Compressor Control	
Blower / Compressor Setpoint <b>BLSP</b>	0 to 250 or 0.0 to 25.0

OP3 Function : Alarm-2	
Parameters	Settings
Alarm-2 Setpoint <b>A2SP</b>	Min. to Max. Range for the Input Type
Alarm-2 Deviation Band <b>A2dE</b>	-1999 to 9999 or -199.9 to 999.9
Alarm-2 Window Band <b>A2bA</b>	3 to 999 or 0.3 to 99.9
OP3 Function : Auxiliary Control	
Auxiliary Control Setpoint <b>SP3</b>	(Min. Range - SP) to (Max. Range - SP) for selected Input
Control Setpoint (SP) Locking	
Setpoint Locking <b>SLOC</b>	<b>no</b> No <b>yes</b> Yes

TABLE- 1		
Option	Range (Min. to Max.)	Resolution
<b>TC-U</b> J Type T/C	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
<b>TC-P</b> K Type T/C	-200 to +1375°C / -328 to +2508°F	
<b>TC-E</b> T Type T/C	-200 to +385°C / -328 to +725°F	
<b>TC-R</b> R Type T/C	0 to +1770°C / +32 to +3218°F	
<b>TC-S</b> S Type T/C	0 to +1765°C / +32 to +3209°F	
<b>TC-B</b> B Type T/C	0 to +1825°C / +32 to +3092°F	
<b>TC-N</b> N Type T/C	0 to +1300°C / +32 to +2372°F	
<b>RTD-3</b> 3-wire, RTD Pt100	-199 to +600°C / -328 to +1112°F	
<b>RTD-1</b> 3-wire, RTD Pt100	-199.9 to 600.0°C / -199.9 to 999.9°F	

TABLE- 2		
Option	What it means	Remarks
<b>RLY</b>	Relay	Applicable for OP1 as Relay / SSR
<b>SSR</b>	SSR (Solid State Relay)	

NOTE : Applicable Only For Zenex DC Linear Version		
Option	What it means	Remarks
<b>0-20</b>	0 to 20mA current	Applicable for OP1 as DC Linear Current
<b>4-20</b>	4 to 20mA current	
<b>0-5</b>	0 to 5 Volts	Applicable for OP1 as DC Linear Voltage
<b>0-10</b>	0 to 10 Volts	

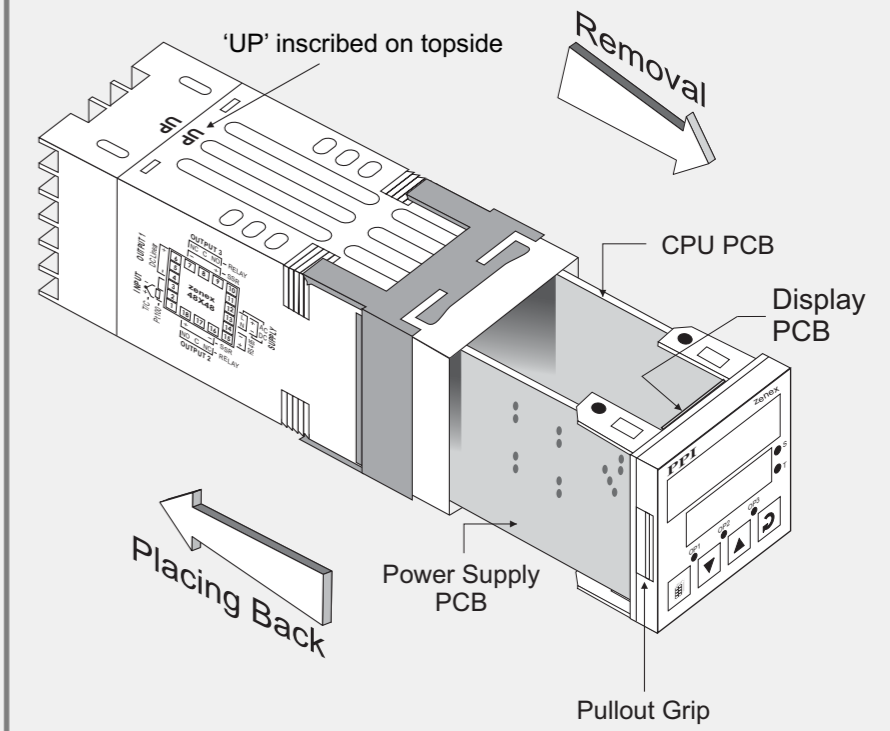
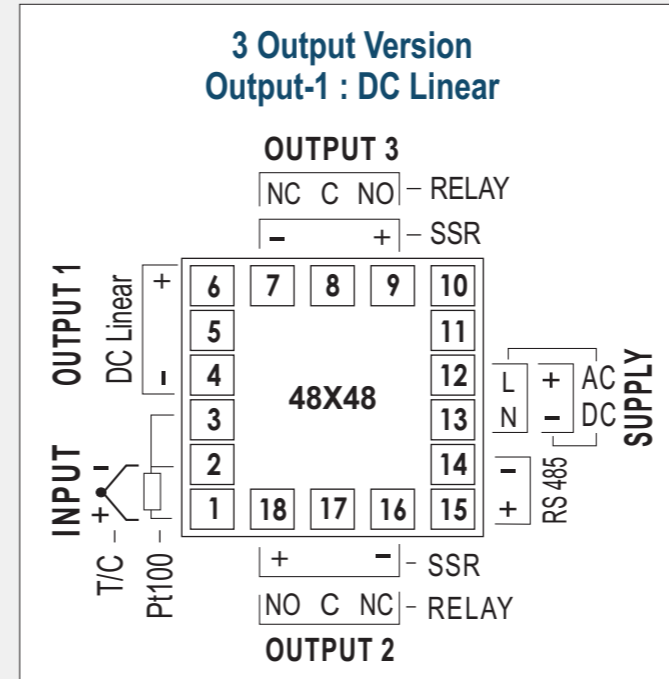
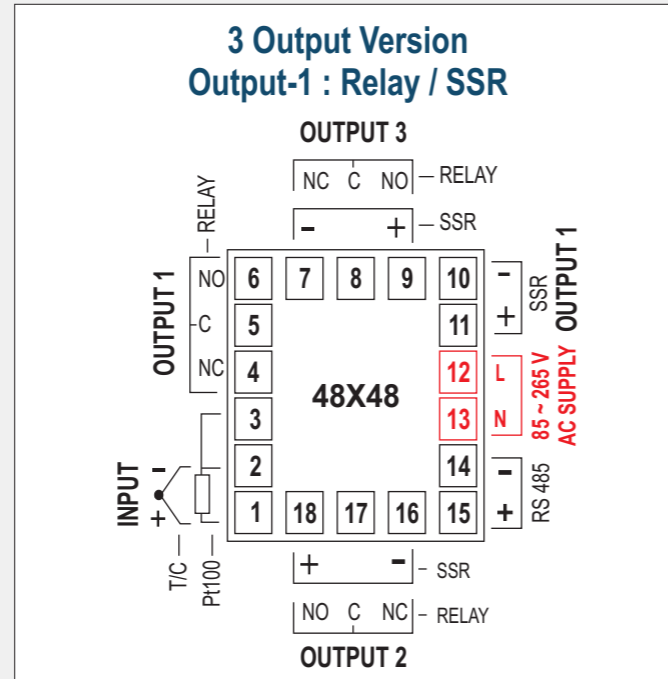
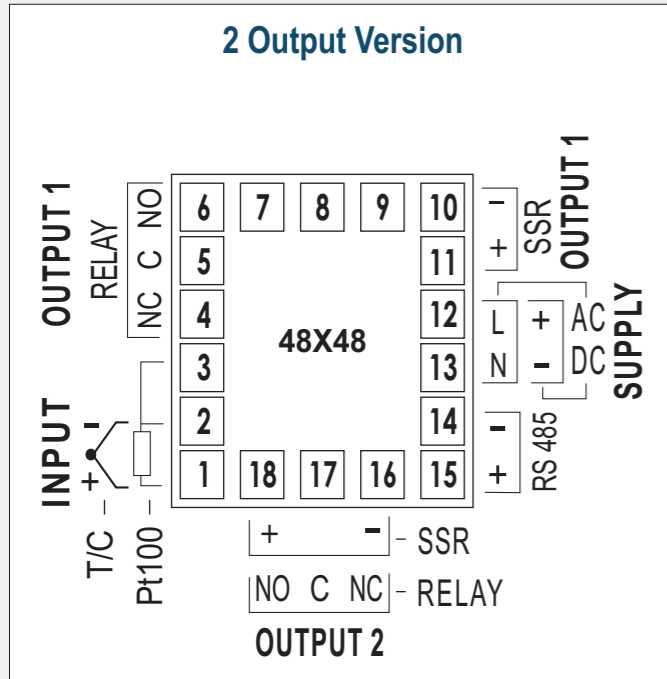


Keys Operation		
Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping 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	PV Error Type
<b>Or</b>	Over-range (PV above Max. Range)
<b>Ur</b>	Under-range (PV below Min. Range)
<b>OPEN</b>	Open (Sensor open / broken)

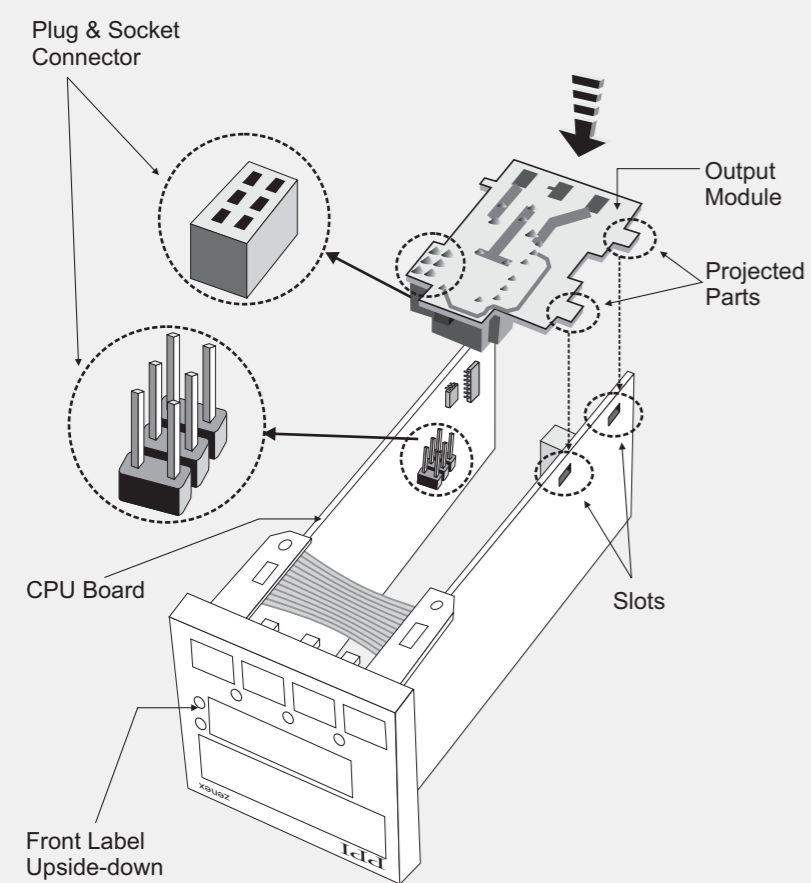
## ELECTRICAL CONNECTIONS

## ENCLOSURE ASSEMBLY



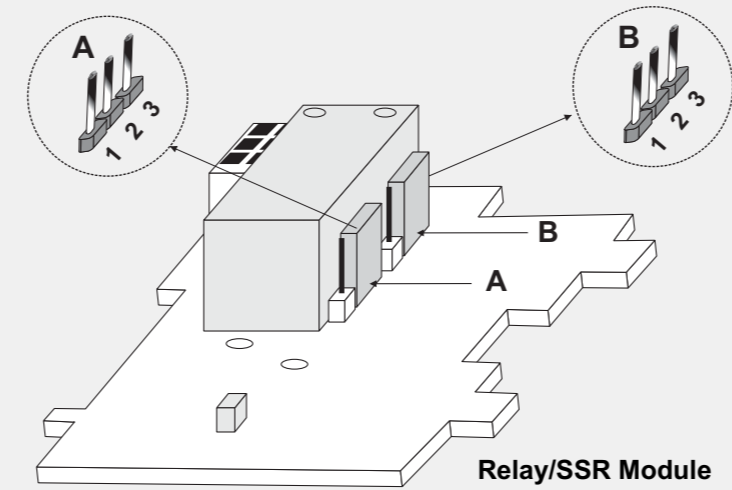
## MOUNTING DETAILS

### OUTPUT-2 MODULE



## JUMPER SETTINGS

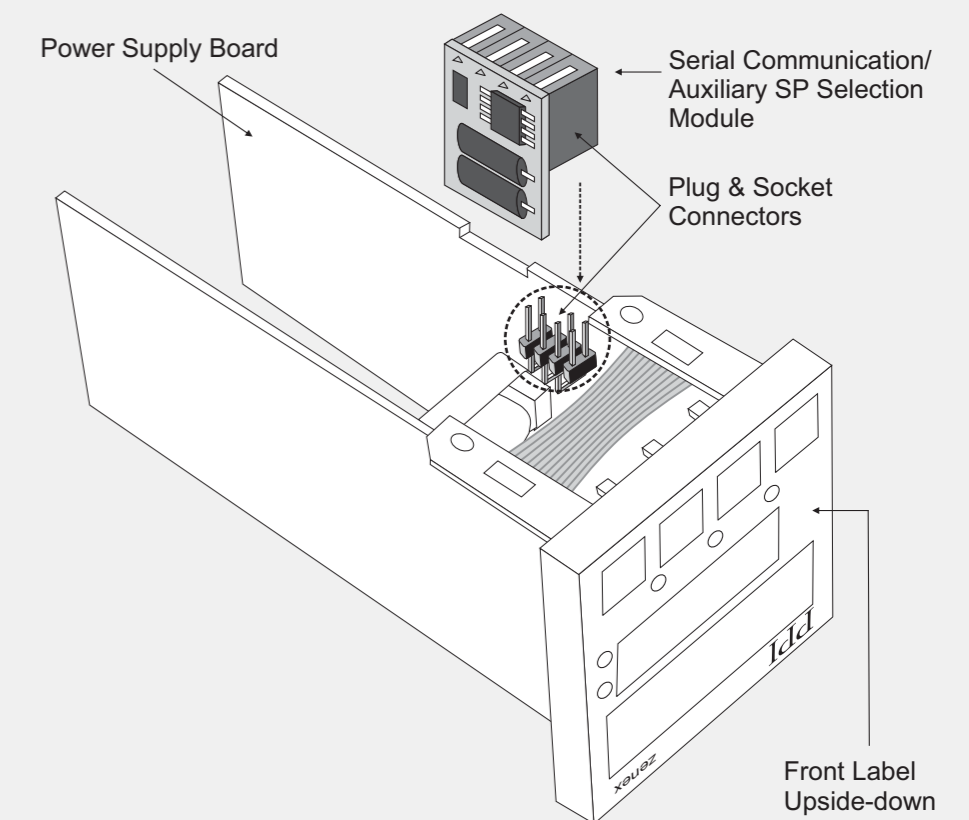
### OUTPUT-2 & OUTPUT-3



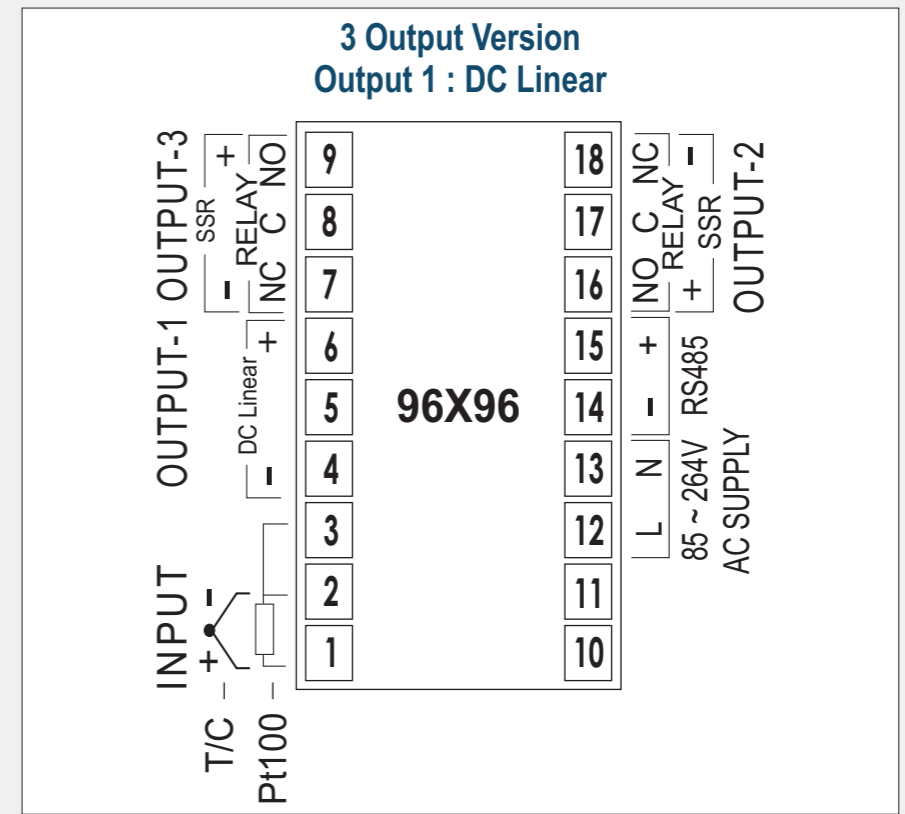
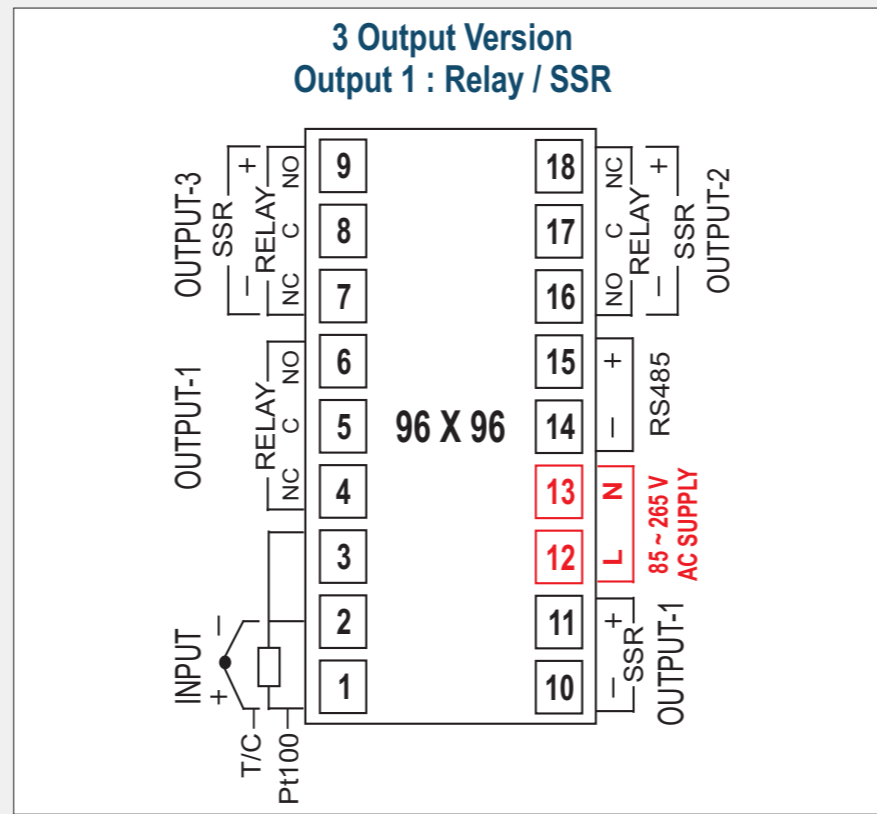
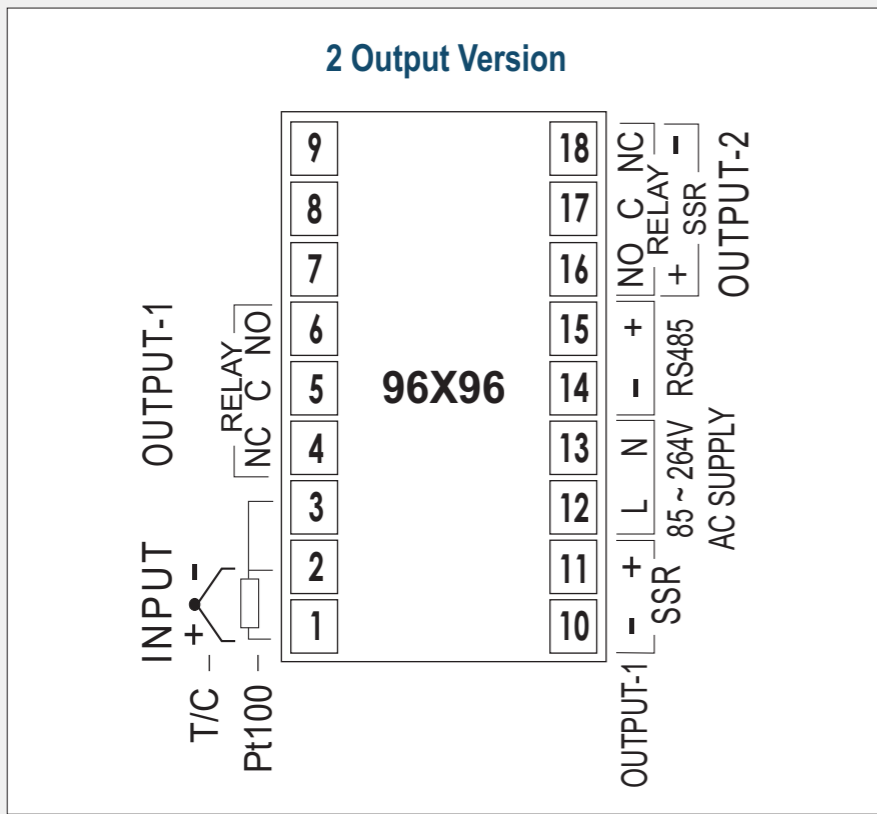
Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR		

## MOUNTING DETAILS

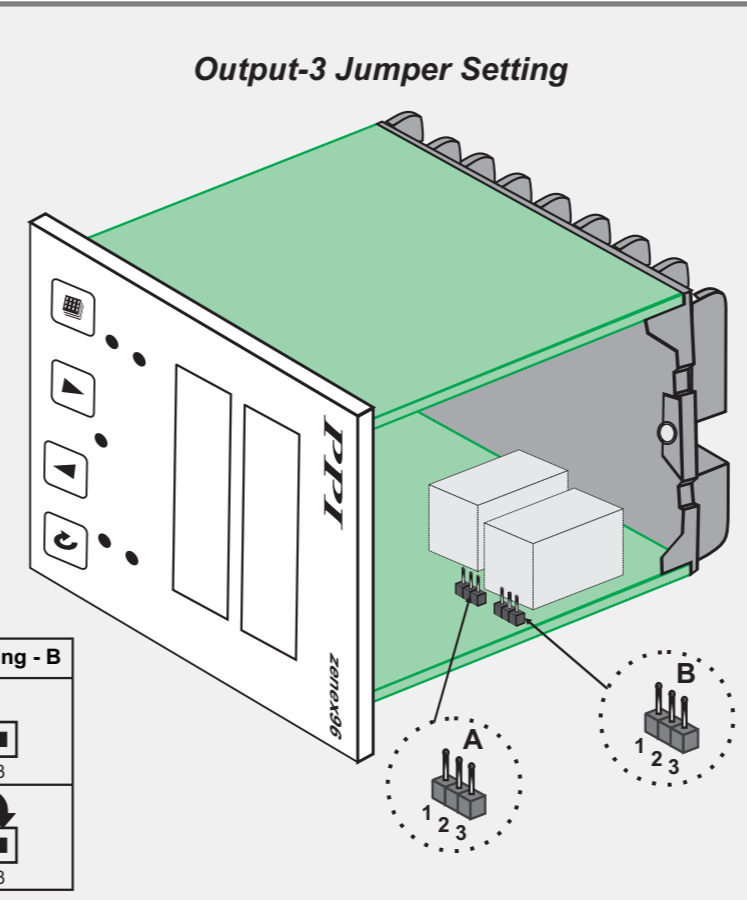
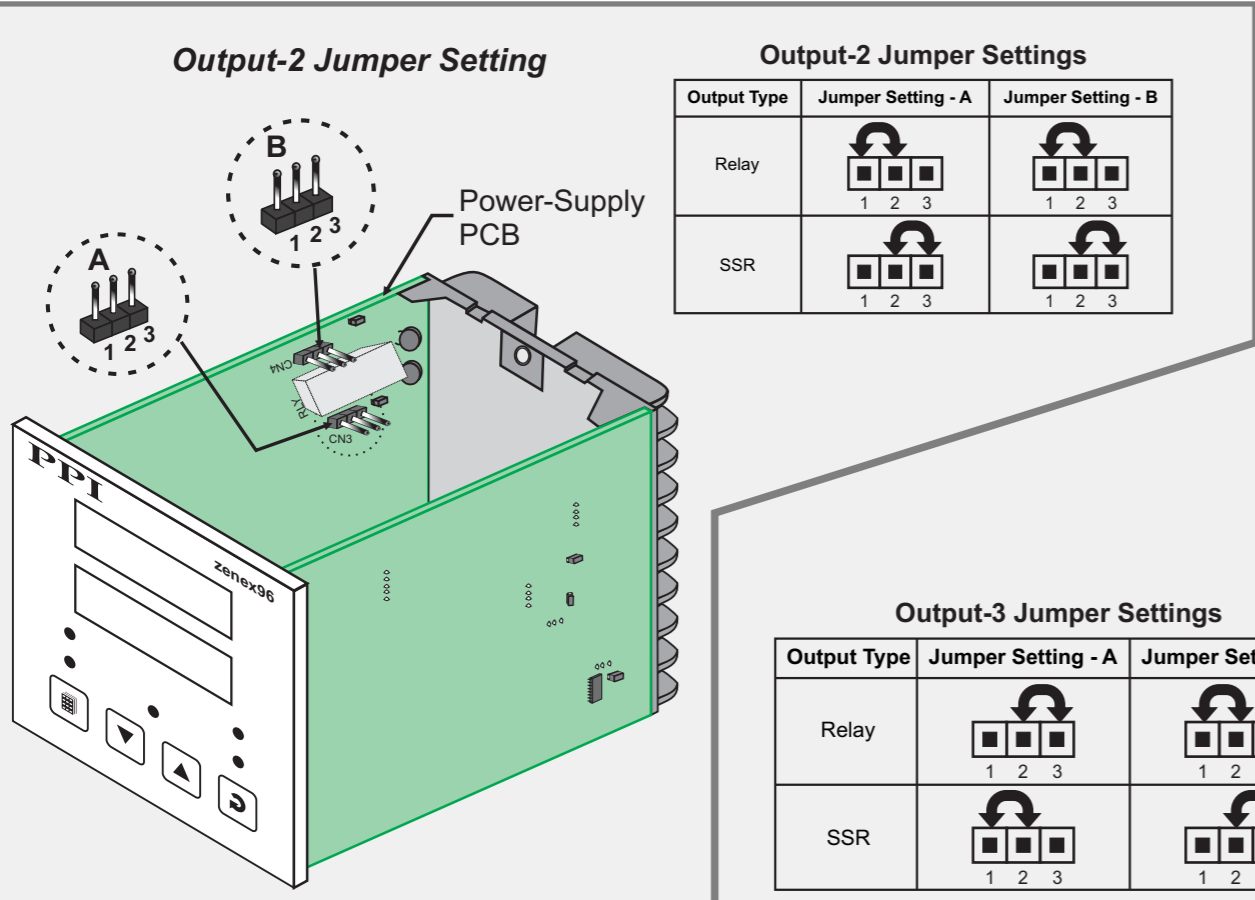
### SERIAL COMM. MODULE



# ELECTRICAL CONNECTIONS



## OUTPUT-2 & OUTPUT-3 : HARDWARE JUMPER SETTINGS



## SERIAL COMMUNICATION MODULE

