

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

SUPERVISORY PARAMETERS : PAGE-11	
Parameters	Settings (Default Value)
Tune Command tUnE	no No YES Yes (Default : No)
Tune Abort Command Abrt	no No YES Yes (Default : No)
Overshoot Inhibit oSh	EnbL Enable dSbL Disable (Default : Disable)
Overshoot Inhibit Factor O.h.F	1.0 to 2.0 (Default : 1.2)
Self-tune on Setpoint Change t.n.SP	EnbL Enable dSbL Disable (Default : Disable)
Offset for PV OFSt	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Digital Filter for PV FLtr	0.5 to 25.0 Seconds in steps of 0.5 Seconds (Default : 1.0)
Permission for OP2/OP3 Setpoint Editing on Operator Page SPOP	EnbL Enable dSbL Disable (Default : Enable)
Utility Option OPEn	nonE None SrLc Serial Comm. StRt Profile Start (Default : None)

Parameters	Settings (Default Value)
Slave ID Id	1 to 127 (Default : 1)
Baud Rate bAUD	1200, 2400, 4800, 9600 (Default : 9600)
Communication Write Enable CoñE	no No YES Yes (Default : Yes)

PID CONTROL PARAMETERS : PAGE-14	
Parameters	Settings (Default Value)
Cycle Time Ct	0.5 to 120.0 Seconds (in steps of 0.5 secs.) (Default : 0.5)
Proportional Band Pb	0.1 to 999.9 (Default : 10.0)
Integral Time It	0 to 1000 Seconds (Default : 100)
Derivative Time dt	0 to 250 Seconds (Default : 25)

OP2 FUNCTION PARAMETERS : PAGE-12	
Parameters	Settings (Default Value)
Output-2 Function Selection OP2F	nonE None ALrñ Alarm CtrL Control bLDr Blower (Default : None)

OP2 Function : Alarm-1	
Parameters	Settings (Default Value)
Type AL_1	P_Lo Process Low P_Hi Process High dEu Deviation Band bRnd Window Band EoP End of Profile (Default : Process Low)
Setpoint ALSP	Min. to Max. Range for the selected Input type (Default : 0)
Deviation Band ALdE	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Window Band ALbA	3 to 999 or 0.3 to 99.9 (Default : 3)
Logic ALLG	norñ Normal rEv Reverse (Default : Normal)
Inhibit ALih	YES Yes no No (Default : Yes)
Alarm Timer ALtñ	5 to 250 Seconds (Default : 10)

OP2 Function : Auxiliary Control	
Parameters	Settings (Default Value)
Offset Value SP2	(Min. Range - SP) to (Max. Range - SP) specified for the selected Input Type (Default : 0)

Parameters	Settings (Default Value)
Hysteresis HYS2	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Control Logic CLOG2	norñ Normal rEv Reverse (Default : Normal)

OP2 Function : Blower / Compressor Control	
Parameters	Settings (Default Value)
Offset Value BLSP	0 to 250 or 0.0 to 25.0 (Default : 0)
Hysteresis BLHY	1 to 250 or 0.1 to 25.0 (Default : 2 or 0.2)
Time Delay EdLY	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 OP3F	nonE None ALrñ Alarm CtrL Control (Default : None)

OP3 Function : Alarm-2	
Parameters	Settings (Default Value)
Type AL_2	P_Lo Process Low P_Hi Process High dEu Deviation Band bRnd Window Band EoP End of Profile (Default : Process Low)
Setpoint AL2SP	Min. to Max. Range for the selected Input type (Default : 0)
Deviation Band AL2dE	-1999 to 9999 or -199.9 to 999.9 (Default : 0)
Window Band AL2bA	3 to 999 or 0.3 to 99.9 (Default : 3)
Logic AL2LG	norñ Normal rEv Reverse (Default : Normal)
Inhibit AL2ih	YES Yes no No (Default : Yes)
Alarm Timer AL2tñ	5 to 250 Seconds (Default : 10)

OP3 Function : Auxiliary Control	
Parameters	Settings (Default Value)
Offset Value SP3	(Min. Range - SP) to (Max. Range - SP) specified for the selected Input Type (Default : 0)
Hysteresis HYS3	1 to 999 or 0.1 to 99.9 (Default : 2 or 0.2)
Control Logic CLOG3	norñ Normal rEv Reverse (Default : Normal)

PROFILE PARAMETERS : PAGE-15		
Parameters	Settings (Default Value)	
Profile Feature PrOF	EnbL Enable dSbL Disable (Default : Disable)	
Ramp Band r.bnd	0 to 250 (Default : 0)	
Soak Band S.bnd	0 to 250 min (Default : 0)	
Ramp Rate for segment-1 r.r.t.1	00.00 to 99.99 Units / Min (Default : 00.00)	
Target Setpoint for segment-1 t.SP.1	Min. Range to Setpoint High (Default : 0)	
Soak Time for segment-1 S.O.t.1	0 to 9999 Minutes (Default : 0)	
Ramp Rate for segment-2 r.r.t.2	Same as Ramp Rate, Target Setpoint and Soak Time for segment-1	
Target Setpoint for segment-2 t.SP.2		
Soak Time for segment-2 S.O.t.2		
Ramp Rate for segment-3 r.r.t.3		
Target Setpoint for segment-3 t.SP.3	Same as Ramp Rate, Target Setpoint and Soak Time for segment-1	
Soak Time for segment-3 S.O.t.3		
Ramp Rate for segment-4 r.r.t.4		
Target Setpoint for segment-4 t.SP.4		
Soak Time for segment-4 S.O.t.4	Same as Ramp Rate, Target Setpoint and Soak Time for segment-1	
Output Off OP.OF		no No YES Yes (Default : Yes)

OPERATOR PAGE AND PARAMETERS : PAGE-0	
Parameters	Settings
Profile Start Command StRt	no No YES Yes
Profile Abort Command Abrt	no No YES Yes
Control Setpoint (SP) SP	Setpoint Low to Setpoint High

OP2 Function : Alarm-1	
Parameters	Settings
Alarm-1 Setpoint AL1SP	Min. to Max. Range for the Input Type
Alarm-1 Deviation Band AL1dE	-1999 to 9999 or -199.9 to 999.9
Alarm-1 Window Band AL1bA	3 to 999 or 0.3 to 99.9

OP2 Function : Auxiliary Control	
Parameters	Settings
Auxiliary Control Setpoint SP2	(Min. Range - SP) to (Max. Range - SP) for selected Input

OP2 Function : Blower / Compressor Control	
Parameters	Settings
Blower / Compressor Setpoint BLSP	0 to 250 or 0.0 to 25.0

OP3 Function : Alarm-2	
Parameters	Settings
Alarm-2 Setpoint AL2SP	Min. to Max. Range for the Input Type
Alarm-2 Deviation Band AL2dE	-1999 to 9999 or -199.9 to 999.9
Alarm-2 Window Band AL2bA	3 to 999 or 0.3 to 99.9

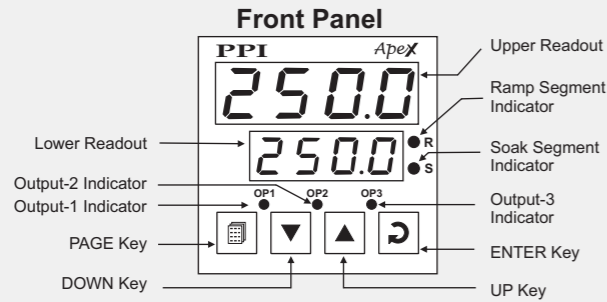
OP3 Function : Auxiliary Control	
Parameters	Settings
Auxiliary Control Setpoint SP3	(Min. Range - SP) to (Max. Range - SP) for selected Input

Control Setpoint (SP) Locking	
Parameters	Settings
Setpoint Locking SLOC	no No YES Yes

TABLE - 2		
Option	What it means	Remarks
rLy	Relay	Applicable for OP1 as Relay / SSR
SSr	SSR (Solid State Relay)	
0-20	0 to 20 mA current	Applicable for OP1 as DC Linear Current
4-20	4 to 20 mA current	
0-5	0 to 5 Volts	Applicable for OP1 as DC Linear Voltage
0-10	0 to 10 Volts	

TABLE - 1		
Option	Range (Min. to Max.)	Resolution
tC_u J Type T/C	0 to +960°C / +32 to +1760°F	Fixed 1°C / 1°F
tC_P K Type T/C	-200 to +1375°C / -328 to +2508°F	
tC_t T Type T/C	-200 to +385°C / -328 to +725°F	
tC_r R Type T/C	0 to +1770°C / +32 to +3218°F	
tC_s S Type T/C	0 to +1765°C / +32 to +3209°F	
tC_b B Type T/C	0 to +1825°C / +32 to +3092°F	
tC_n N Type T/C	0 to +1300°C / +32 to +2372°F	
rtd 3-wire, RTD Pt100	-199 to +600°C / -328 to +1112°F	
rtd.1 3-wire, RTD Pt100	-199.9 to 600.0°C / -199.9 to 999.9°F	

FRONT PANEL LAYOUT



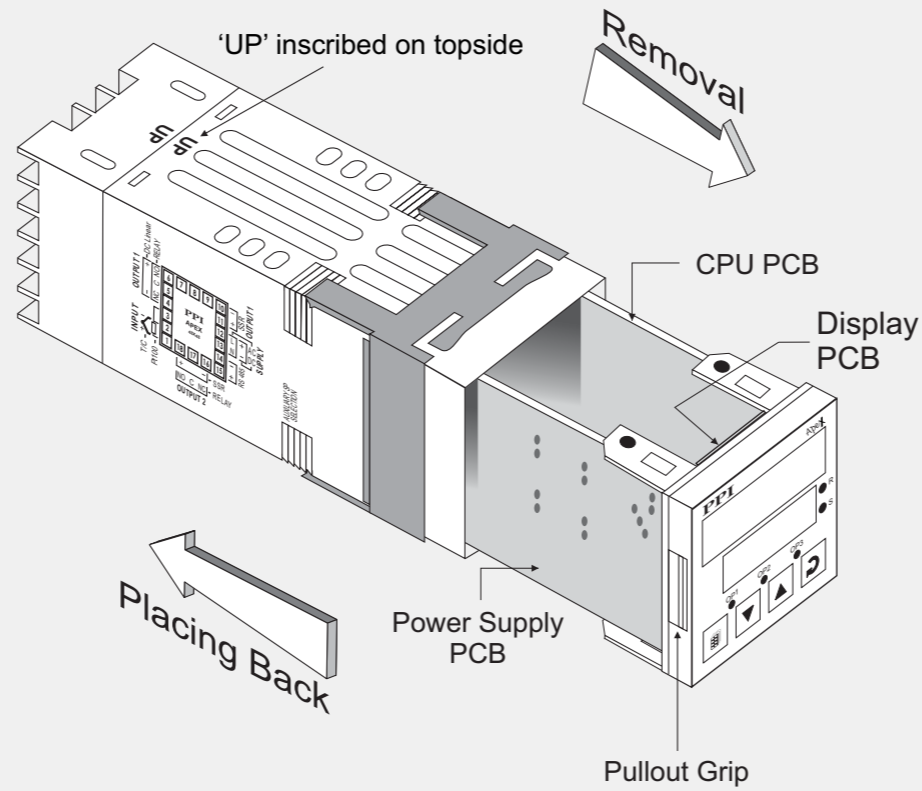
Keys Operation

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; 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

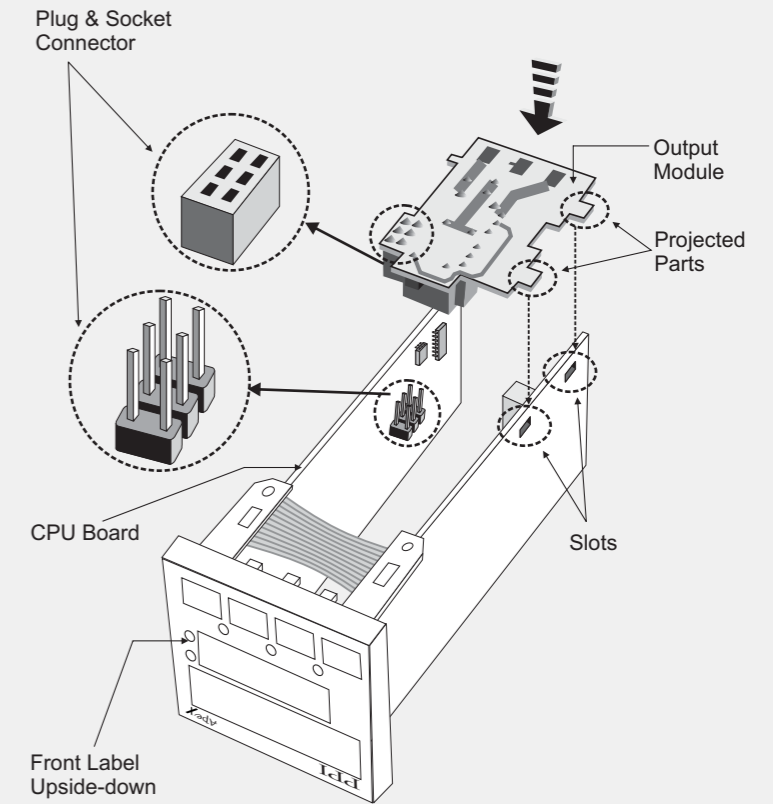
Message	PV Error Type
	Over-range (PV above Max. Range)
	Under-range (PV below Min. Range)
	Open (Sensor open / broken)

ENCLOSURE ASSEMBLY

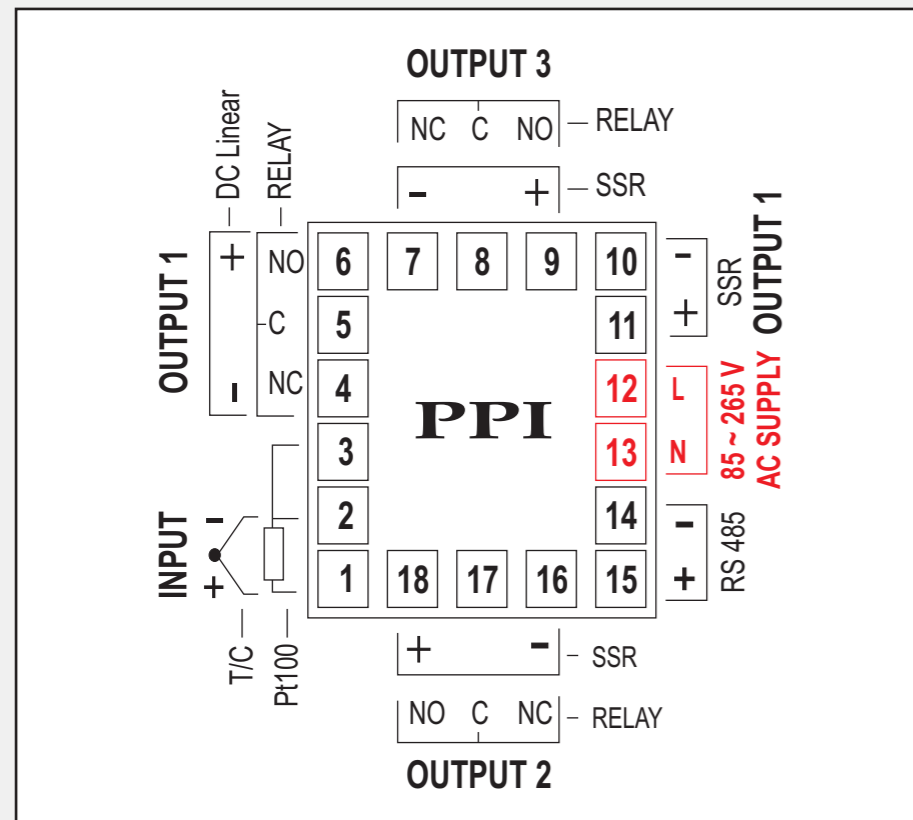


MOUNTING DETAILS

OUTPUT-2 MODULE

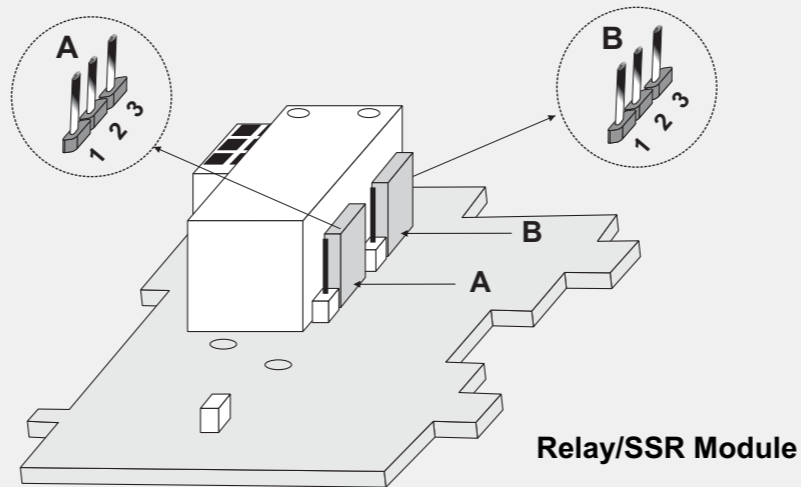


ELECTRICAL CONNECTIONS



JUMPER SETTINGS

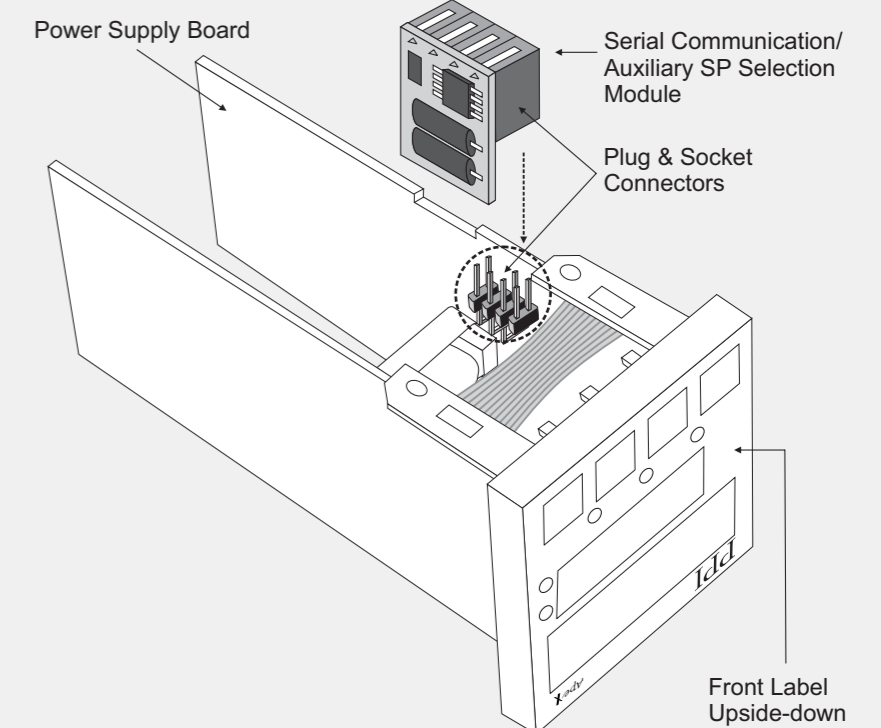
OUTPUT-2 & OUTPUT-3



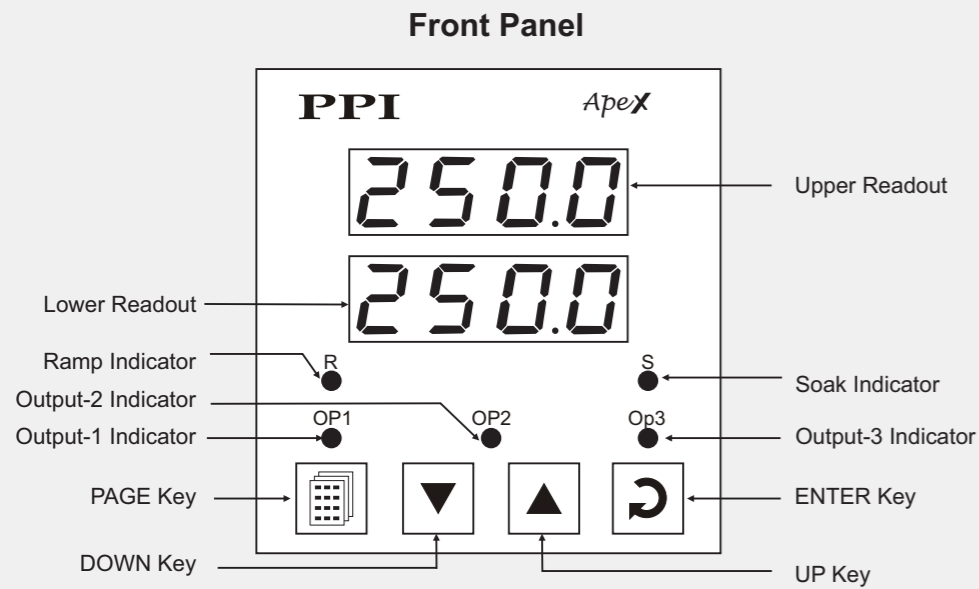
Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR		

MOUNTING DETAILS

SERIAL COMM. MODULE



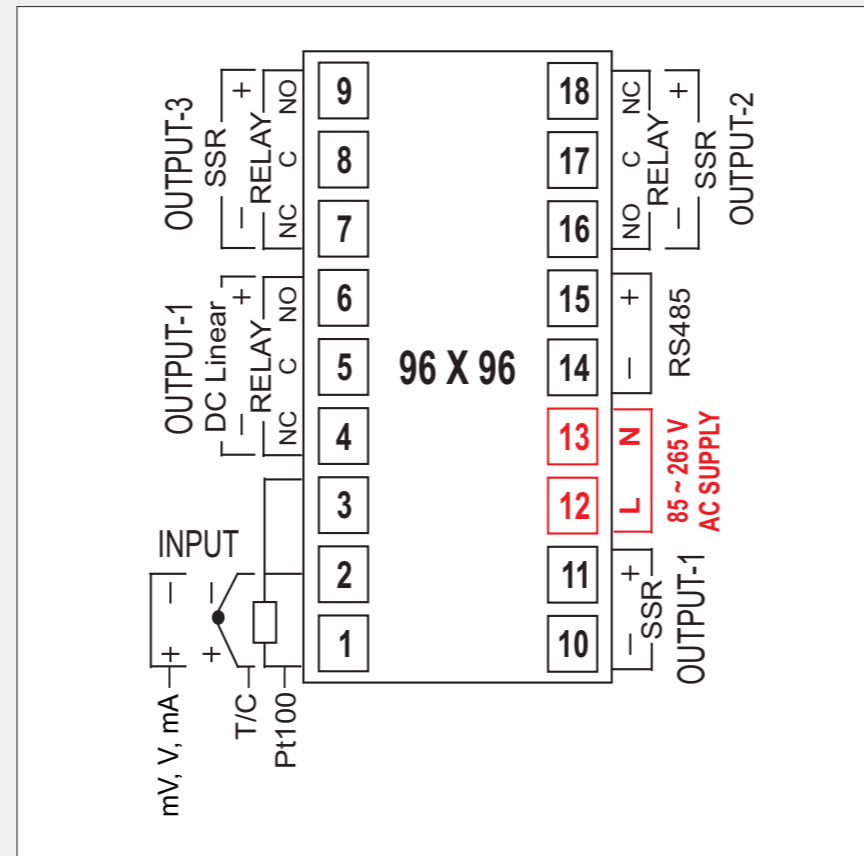
FRONT PANEL LAYOUT



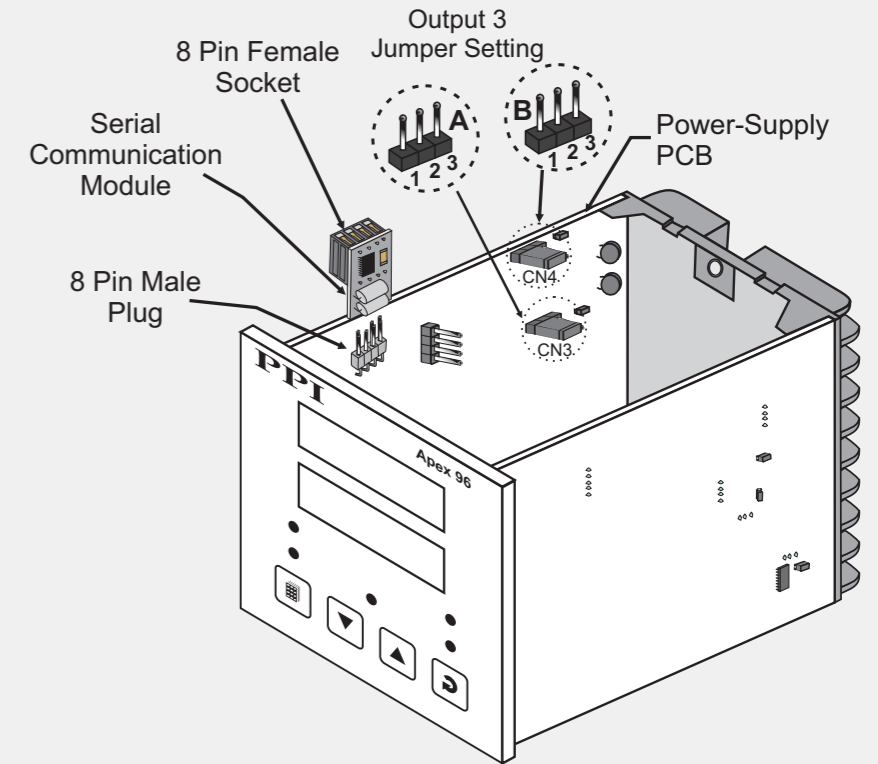
Keys Operation

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; keeping pressed speeds up the change.
	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

ELECTRICAL CONNECTIONS



SERIAL COMMUNICATION MODULE



INPUT & OUTPUT HARDWARE JUMPER SETTINGS

Output-2

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

