



PPI FrizCon Deep Freezer Controller with Graphic Display Instruction Manual

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PPI FrizCon Deep Freezer Controller with Graphic Display



OPERATOR PARAMETERS

OPERATOR PARAMETERS	
Parameters	Settings (Default Value)
Filter Repair Ack >>	Yes No (Default : No)
Cascade HPLP Ack >> Cabinet HPLP Ack >>	Yes No (Default : No)
Ctrl Setpoint >>	Setpoint Low Limit to Setpoint High Limit (Default : -80.0)
Ctrl Lo Deviation >>	0.2 to 99.9 (Default : 2.0)
Ctrl Hi Deviation >>	0.2 to 99.9 (Default : 2.0)
Ctrl Zero Offset >>	-50.0 to 50.0 (Default : 0.0)
Filter Zero Offset >> or Coil Zero Offset >>	-50.0 to 50.0 (Default : 0.0)
Defrost Start >> Defrost Stop >>	Start Stop (Default : NA)
Change Password >>	1 to 100 (Default : 0)

SUPERVISORY	SERIAL PARAMETERS
Parameters	Settings (Default Value)
Device Id >>	1 to 127 (Default : 1)
Baud Rate >>	2400, 4800, 9600, 19200, 38400, 57600 (Default : 9600)
Parity >>	None Even Odd (Default : Even)
Serial Write >>	No Yes (Default : No)

SUPERVISORY CONTROL	
Parameters	Settings (Default Value)
Setpoint Lo Limit >>	-100.0 to Setpoint HI Limit (Default : -100.0)
Setpoint Hi Limit >>	'Single' or 'Single with Filter' Compressor Mode Setpoint LO Limit to 100.0 'Cascade' or 'Cascade with Filter' or 'Cascade with Coil' Compressor Mode Setpoint LO Limit to Cascade SP (Default : -10.0)
Comp On Offset >>	0.1 to 99.9 (Default : 1.0)
Comp Off Offset >>	0.1 to 99.9 (Default : 0.1)

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

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

FACTORY > CABINET SENSOR			
Parameters	Settings (Default Value)		
Input Type >>	Refer Table 1 (Default : RTD Pt100)		
Signal Lo >>	Input Type	Settings	Default
	0 to 20 mA	0.00 to Signal High	0.00
	4 to 20 mA	4.00 to Signal High	4.00
	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 Hi >>	Input Type	Settings	Default
	0 to 20 mA	Signal Low to 20.00	20.00
	4 to 20 mA	Signal Low to 20.00	20.00
	0 to 5 V	Signal Low to 5.000	5.000
	0 to 10 V	Signal Low to 10.00	10.00
	1 to 5 V	Signal Low to 5.000	5.000
Range Lo >>	-199.9 to Range Hi (Default : 0.0)		
Range Hi >>	Range Lo to 999.9 (Default : 100.0)		
Filter Constant >>	0.5 to 30.0 (Default : 0.5)		

FACTORY > COIL FILTER SENSOR	
The Parameter Descriptions are the same as described for the parameters for CABINET SENSOR above.	

FACTORY ALARM PARAMETERS	
Parameters	Settings (Default Value)
Low Alarm Hyst >>	0.1 to 99.9 (Default : 0.2)
Low Alarm Inhibit >>	Disable Enable (Default : Enable)
High Alarm Hyst >>	0.1 to 99.9 (Default : 0.2)
High Alarm Inhibit >>	Disable Enable (Default : Enable)

FACTORY COMPRESSOR OPERATION	
Parameters	Settings (Default Value)
Operation Mode>>	Single Single with Filter Cascade Cascade with Filter Cascade with Coil (Default : Cascade with Coil)
Cascade Sp>>	-70.0 to 10.0 (Default : -30.0)
Off To On Delay>>	0 to 1000 Sec (Default : 200 Sec)
Switching Delay>>	0 to 1000 Sec (Default : 15 Sec)
Cascade Comp Hyst >>	1 to 50.0 (Default : 20)

FACTORY FILTER OPERATION	
Parameters	Settings (Default Value)
Filter Alarm Sp >>	-100.0 to 100.0 (Default : 55.0)
Filter Alarm Hyst >>	0.1 to 99.9 (Default : 0.2)
Filter Cut-off Sp >>	Alarm SP to 100.0 (Default : 60.0)

FACTORY DEFROST OPERATION	
Parameters	Settings (Default Value)
Operation >>	Disable Automatic Manual (Default : Disable)
Defrost Time [M:S] >>	1 to 99.59 (Min:Sec) (Default : 5 Sec)
Defrost Interval [H:M] >>	1 to 99.59 (Hour:Min) (Default : 8 Min)

Parameters	Settings (Default Value)
Switch Logic >>	Open : Door Open Close : Door Open (Default : Close : Door Open)
Door Alrm Dly (sec) >>	0 to 1000 Sec (Default : 60 Sec)

FACTORY CASCADE COMP HPLP (Available only for Cascade Operation Mode)	
Parameters	Settings (Default Value)
Enable >>	No Yes (Default : No)
Switch Logic >>	Open : HP-LP Close : HP-LP (Default : Close : HP-LP)

FACTORY	CABINET COMP HPLP
Parameters	Settings (Default Value)
Enable >>	No Yes (Default : No)
Switch Logic >>	Open : HP-LP Close : HP-LP (Default : Close : HP-LP)

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

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

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

Table 1		
What it means	Range (Min. to Max.)	Resolution
3-wire, RTD Pt100	-199.9 to 600.0°C	Fixed 0.1°C
0 to 20mA DC current	-199.9 to 999.9 units	Fixed 0.1 unit
4 to 20mA DC current		
0 to 5.0V DC voltage		
0 to 10.0V DC voltage		
1 to 5.0V DC voltage		

FRONT PANEL LAYOUT

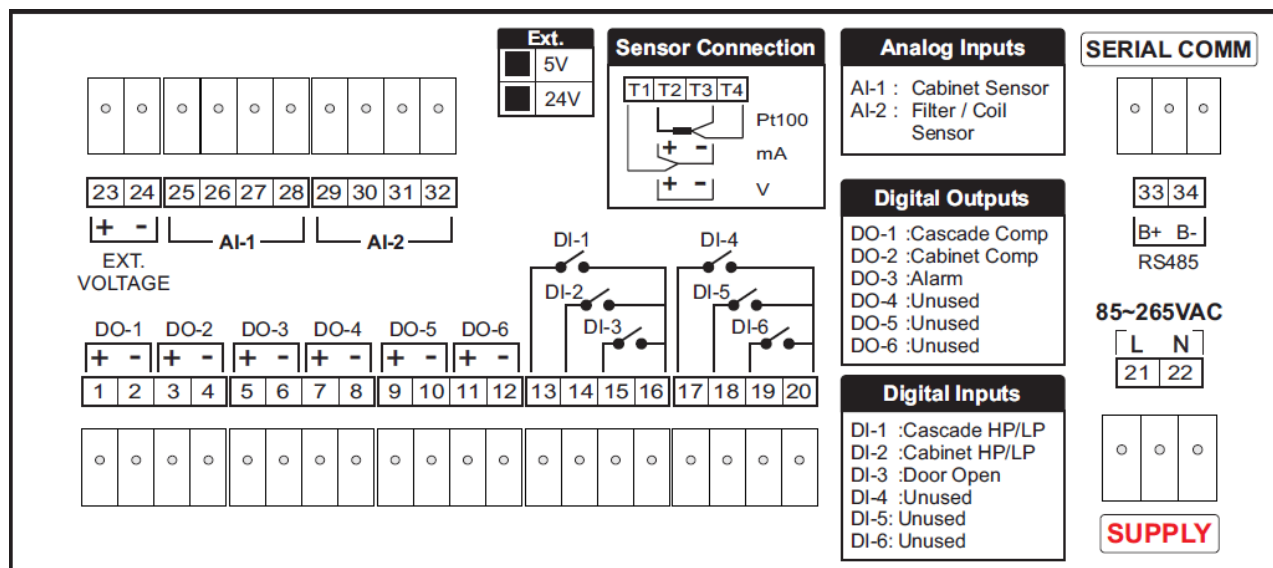
Keys Operation

Symbol	Key	Function
	Scroll	Press to scroll through various Process Information Screens in Normal Operation Mode.
	Alarm Acknowledge	Press to acknowledge and mute (if active) alarm output.
	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
	Sensor Open	RTD Pt100 Sensor/Cable is Broken / Open
	Over-range	Temperature above Max. Specified Range
	Under-range	Temperature below Min. Specified Range

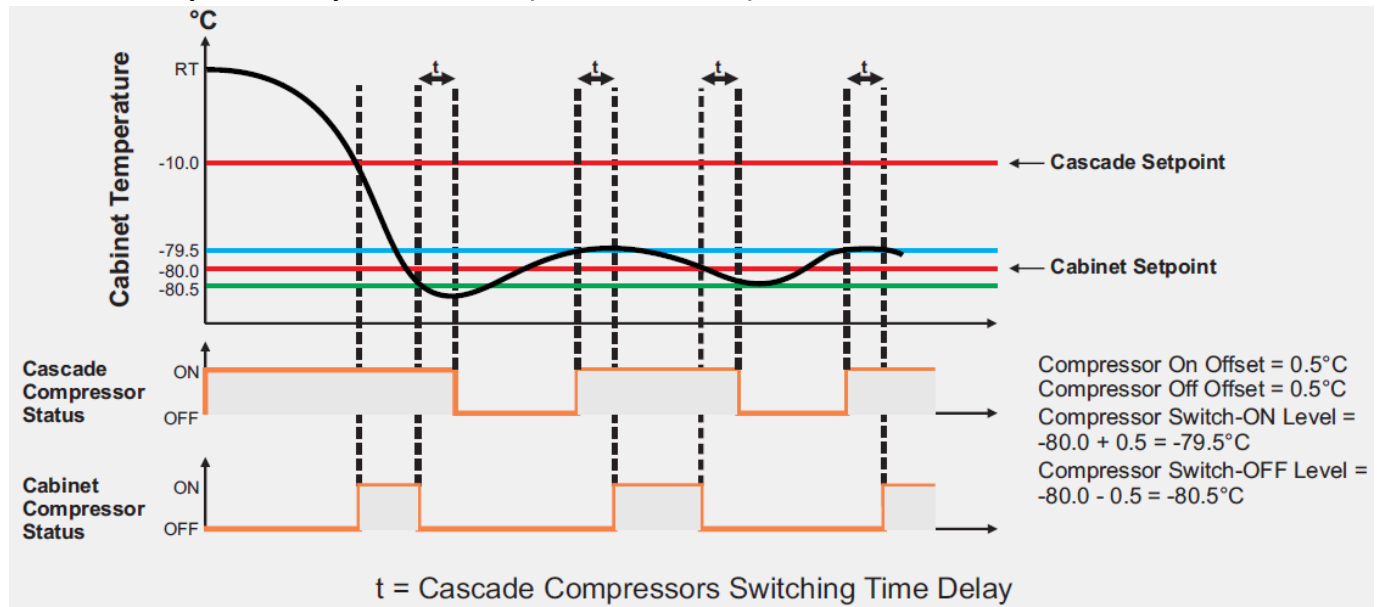
ELECTRICAL CONNECTIONS



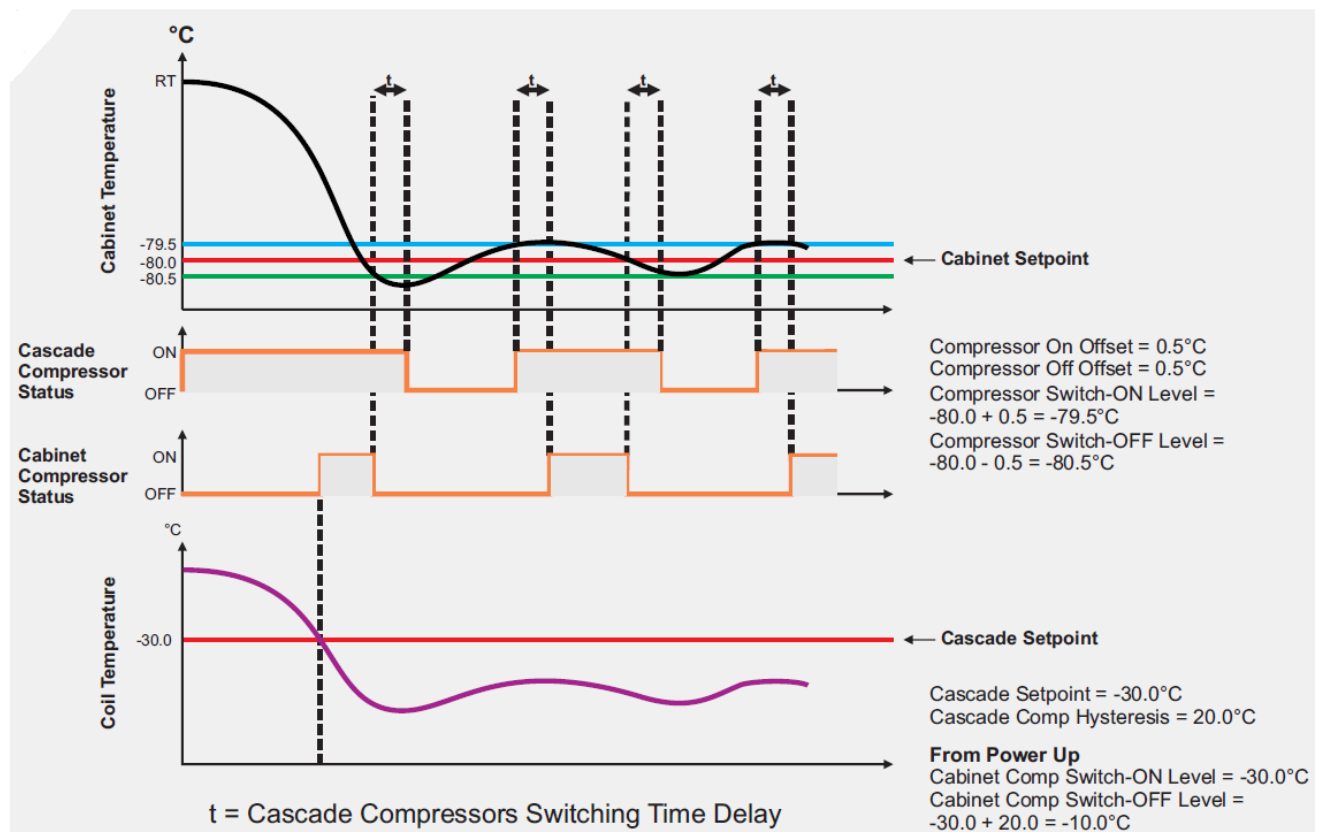
CASCADE OPERATION MODE

* For more Information refer User Manual

Cascade Compressors Operation Mode (with Coil Sensor)



Cascade Compressors Operation Mode (without Coil Sensor)



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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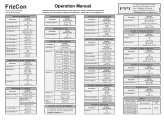
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Documents / Resources



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FrizCon, FrizCon Deep Freezer Controller with Graphic Display, Deep Freezer Controller with Graphic Display, Freezer Controller with Graphic Display, Graphic Display

References

- [Factory Automation Products India | Automation Solutions in India](#)