

# FrizCon 96

Refrigeration (Deep Freezer) Controller  
(Single or Cascade Compressors)

# 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](http://www.ppiindia.net)

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Jan 2026

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
Change Password >>	Yes No (Default : No)
New Password >>	0 to 3000 (Default : 0)

SUPERVISORY > PASSWORD	
Parameters	Settings (Default Value)
Change Password >>	Yes No (Default : No)
New Password >>	0 to 3000 (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 >>	-99.9 to 99.9 (Default : 0.0)		
Range Hi >>	-99.9 to 99.9 (Default : 99.9)		
PV Filter Time >>	0.5 to 30.0 (Default : 0.5)		

SUPERVISORY > SERIAL COMM	
Parameters	Settings (Default Value)
Device Id >>	1 to 127 (Default : 1)
Baud Rate >>	9600, 19200, 38400 (Default : 9600)
Parity >>	None Even Odd (Default : Even)
Serial Write >>	No Yes (Default : Yes)
SUPERVISORY > CONTROL	
Parameters	Settings (Default Value)
Setpoint Lo Limit >>	-99.9 to 99.9 (Default : -99.9)
Setpoint Hi Limit >>	-99.9 to 99.9 (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)

FACTORY > ALARM PARAMETERS	
Parameters	Settings (Default Value)
Low Alarm Hyst >>	0.1 to 99.9 (Default : 0.2)
Low Alarm Inhibit >>	No Yes (Default : Yes)
High Alarm Hyst >>	0.1 to 99.9 (Default : 0.2)
High Alarm Inhibit >>	No Yes (Default : Yes)

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)

This parameter is dependent on the set value for COMPRESSOR OPERATION parameter. For Single & Cascade operation this parameter is not available. The parameter descriptions are the same as described for the parameters for CABINET SENSOR.

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

FACTORY > DEFROST OPERATION	
Parameters	Settings (Default Value)
Mode >>	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)

FACTORY > DOOR MONITORING	
Parameters	Settings (Default Value)
Enable >>	No Yes (Default : No)
Switch Logic >>	Open : Door Open Close : Door Open (Default : Close : Door Open)
Door Alarm Dly (sec) >>	0 to 1000 Sec (Default : 60 Sec)

FACTORY > CASCADE COMP HPLP	
Parameters	Settings (Default Value)
This parameter is dependent on the set value for COMPRESSOR OPERATION parameter and is available for Cascade or Cascade with Filter or Cascade with Coil operation only.	
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)

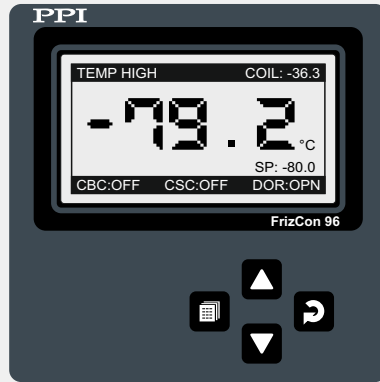
FACTORY > FACTORY DEFAULT	
Parameters	Settings (Default Value)
Set To Default >>	No Yes (Default : No)

FACTORY > PASSWORD	
Parameters	Settings (Default Value)
Change Password >>	Yes No (Default : No)
New Password >>	0 to 3000 (Default : 321)

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

## FRONT PANEL LAYOUT

### FRONT LAYOUT



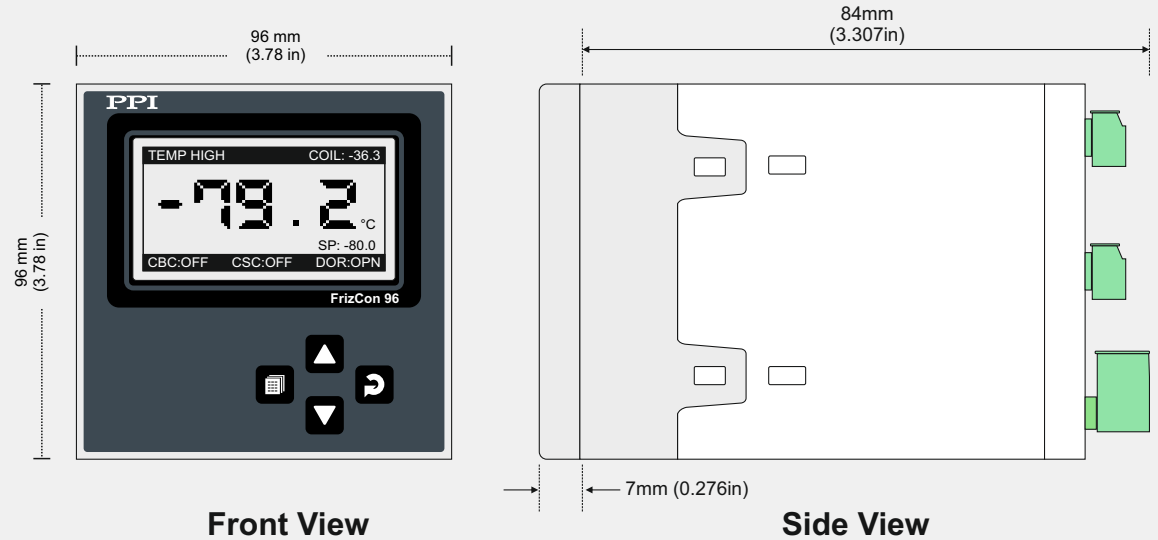
### Keys Operation

Symbol	Key	Function (in Set-up Mode)
	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 in setup mode. Can also be used as Alarm Acknowledgment in normal operation mode.

**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		

## OUTER DIMENSION



## PANEL CUTOUT, SPACING & ELECTRICAL CONNECTION

