



PPI HumiTherm GD Temperature and Humidity Controller with Graphic Display Instruction Manual

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PPI HumiTherm GD Temperature and Humidity Controller with Graphic Display



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Operation

OPERATOR PAGE PARAMETERS	
Parameters	Settings (Default Value)
Temp. Set Value >>	SP Low Limit to SP High Limit for Temperature (Default : 25.0)

RH Set Value >>	SP Low Limit to SP High Limit for RH (Default : 60.0)
Temp. LO Deviation >> (Available only if Temp. Low Deviation Alarm is Enabled)	0.2 to 99.9 (Default : 2.0)
Temp. HI Deviation >> (Available only if Temp. High Deviation Alarm is Enabled)	0.2 to 99.9 (Default : 2.0)

RH LO Deviation >> (Available only if RH Low Deviation Alarm is Enabled)	0.2 to 99.9 (Default : 2.0)
RH HI Deviation >> (Available only if RH High Deviation Alarm is Enabled)	0.2 to 99.9 (Default : 2.0)
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)
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SUPERVISORY > PV OFFSET	
Parameters	Settings (Default Value)
Temp. Zero Offset >>	-50.0 to 50.0 (Default : 0.0)
RH Zero Offset >>	-50.0 to 50.0 (Default : 0.0)

SUPERVISORY > TEMPERATURE / RH ALARM ENABLE

Parameters

Settings (Default Value)

Temp Low Alarm >> Temp High Alarm >>

Disable Enable
(Default : Enable)

RH Low Alarm >> RH High Alarm >>

Disable Enable
(Default : Enable)

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 > TEMPERATURE > ALARM

Parameters

Settings (Default Value)

Hysteresis >>

0.1 to 99.9
(Default : 0.2)

Inhibit >>

No Yes
(Default : No)

FACTORY > TEMPERATURE > CONTROL

Parameters

Settings (Default Value)

Tune >>

No Yes
(Default : No)

Setpoint LO Limit >>	0.0 to Setpoint HI Limit (Default : 10.0)
Setpoint HI Limit >>	Setpoint LO Limit to 99.9 (Default : 99.9)
CONTROL ZONES : DUAL	
Parameters	Settings (Default Value)
CZ Prop Band >>	0.1 to 999.9 (Default : 50.0)
CZ Integral Time >>	0 to 3600 Sec (Default : 100 Sec)

CZ Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
HZ Prop Band >>	0.1 to 999.9 (Default : 50.0)
HZ Integral Time >>	0 to 3600 Sec (Default : 100 Sec)
HZ Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
Cycle Time >>	0.5 to 100.0 Sec (Default : 10.0 Sec)
CONTROL ZONES : SINGLE	

Parameters	Settings (Default Value)
Proportional Band >>	0.1 to 999.9 (Default : 50.0)
Integral Time >>	0 to 3600 Sec (Default : 100 Sec)
Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
Cycle Time >>	0.5 to 100.0 Sec (Default : 10.0 Sec)

FACTORY > TEMPERATURE > SENSOR INPUT	
Parameters	Settings (Default Value)

Input Type >>	RTD Pt100 0-20mA 4-20mA 0-5V 0-10V 1-5V (Default : RTD Pt100)		
Signal LO >> Signal HI >>			
	Input Type	Settings	Default
	Oto 20mA	0.00 to 20.00	0.00
	4 to 20mA	4.00 to 20.00	4.00
	0 to 5V	0.000 to 5.000	0.000
	0 to 10V	0.00 to 10.00	0.00
	1 to 5V	1.000 to 5.000	1.000
Range LO >>	-199.9 to 999.9 Counts (Default : 0.0)		
Range HI >>	-199.9 to 999.9 Counts (Default : 100.0)		

FACTORY > HUMIDITY (RH) > ALARM

Parameters	Settings (Default Value)
Hysteresis >>	0.1 to 99.9 (Default : 0.2)
Inhibit >>	No Yes (Default : No)

FACTORY > HUMIDITY (RH) > CONTROL

Parameters	Settings (Default Value)
Tune >>	No Yes (Default : No)

Setpoint LO Limit >>	0.0 to Setpoint HI Limit (Default : 10.0)
Setpoint HI Limit >>	Setpoint LO Limit to 99.9 (Default : 99.9)
CONTROL ZONES : DUAL	
Parameters	Settings (Default Value)
CZ Prop Band >>	0.1 to 999.9 (Default : 50.0)
CZ Integral Time >>	0 to 3600 Sec (Default : 100 Sec)

CZ Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
HZ Prop Band >>	0.1 to 999.9 (Default : 50.0)
HZ Integral Time >>	0 to 3600 Sec (Default : 100 Sec)
HZ Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
Cycle Time >>	0.5 to 100.0 Sec (Default : 10.0 Sec)
CONTROL ZONES : SINGLE	

Parameters	Settings (Default Value)
Proportional Band >>	0.1 to 999.9 (Default : 50.0)
Integral Time >>	0 to 3600 Sec (Default : 100 Sec)
Derivative Time >>	0 to 600 Sec (Default : 16 Sec)
Cycle Time >>	0.5 to 100.0 Sec (Default : 10.0 Sec)

FACTORY > HUMIDITY (RH) > SENSOR INPUT	
Parameters	Settings (Default Value)

Input Type >>	0-20mA 4-20mA 0-5V 0-10V 1-5V (Default : 0-5V)												
Signal LO >> Signal HI >>	<table><tr><th>Input Type</th><th>Settings</th></tr><tr><td>0 to 20 mA</td><td>0.00 to 20.00</td></tr><tr><td>4 to 20 mA</td><td>4.00 to 20.00</td></tr><tr><td>0 to 5 V</td><td>0.000 to 5.000</td></tr><tr><td>0 to 10 V</td><td>0.00 to 10.00</td></tr><tr><td>1 to 5 V</td><td>1.000 to 5.000</td></tr></table> Default : Signal Low 0.000 Signal High 5.000	Input Type	Settings	0 to 20 mA	0.00 to 20.00	4 to 20 mA	4.00 to 20.00	0 to 5 V	0.000 to 5.000	0 to 10 V	0.00 to 10.00	1 to 5 V	1.000 to 5.000
Input Type	Settings												
0 to 20 mA	0.00 to 20.00												
4 to 20 mA	4.00 to 20.00												
0 to 5 V	0.000 to 5.000												
0 to 10 V	0.00 to 10.00												
1 to 5 V	1.000 to 5.000												
Range LO >>	-199.9 to 999.9 Counts (Default : 0.0)												
Range HI >>	-199.9 to 999.9 Counts (Default:100.0)												

FACTORY > COMPRESSOR

Control Strategy : Heat + Cool

COMPRESSOR STRATEGY >>

CONT. OFF CONT. ON SP BASED P
V BASED

(Default : CONT. ON)

CONT. ON

SP BASED

PV BASED

Time Delay (sec) >>

0 to 1000 Sec (Default : 200 Sec)

Boundary Set Value >>

0.0 to 100.0

(Default : 45.0)

Compressor SP >>

0.0 to 100.0

(Default : 2.0)

	Control Zones >> SINGLE DUAL (Default : SINGLE)	Hysteresis >> 0.1 to 99.9 (Default : 2.0)
	Time Delay (sec) >> 0 to 1000 Sec (Default : 200 Sec)	Time Delay (sec) >> 0 to 1000 Sec (Default : 200 Sec)

FACTORY > BOILER WATER LEVEL	
Parameters	Settings (Default Value)

Enable >>	No Yes (Default : No)
Water	Single Switch
Level Startegy >>	Dual Switch LO-HI Dual Switch LO-VLO
	(Default : Single Switch)
Switch-1 Logic >>	Open : Water LO Close : Water LO (Default : Close : Water LO)

Switch-2 Logic >>

Open : Water HI Close : Water HI

(Default : Close : Water HI)

OR

Open : Water VLO Close : Water VLO

(Default : Close : Water VLO)

FACTORY > DOOR OPEN

Parameters

Settings (Default Value)

Enable >>

No Yes
(Default : No)

Switch Logic >>

Open : Door Open Close : Door Open
(Default : Close : Door Open)

**Door
Alrm Dly (sec) >>**

0 to 1000 Sec (Default : 60 Sec)

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)

FRONT PANEL KEY

KEYS OPERATION

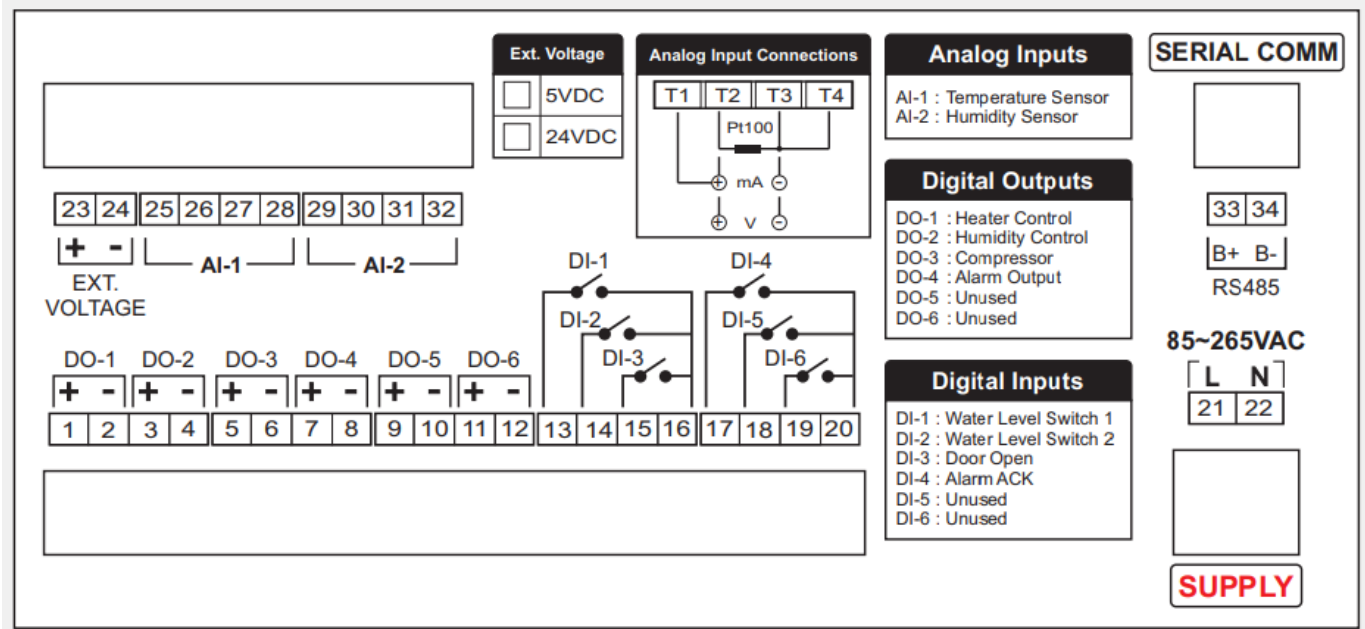
Symbol	Key	Function
	Scroll	Press to scroll through various Process Information Screens in Normal Operation Mode.
	Alarm Acknowledge	Press to acknowledge and mute (if active) alarm output.

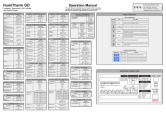
	DOWN	Press to decrease the parameter value. Pressing once decreases the value by one count; keeping pressed speeds up the change.
	UP	Press to increase the parameter value. Pressing once increases the value by one count; keeping pressed speeds up the change.
	SET-UP	Press to enter or exit set-up mode.
	ENTER	Press to store the set parameter value and to scroll to the next parameter.

PV ERROR INDICATIONS

Message	Error Type	Cause
OPEN	Sensor Open	Sensor (RTD Pt100) Broken / Open
OVR	Over-range	Temperature above Max. Specified Range
UNR	Under-range	Temperature below Min. Specified Range

ELECTRICAL CONNECTIONS





[PPI HumiTherm GD Temperature and Humidity Controller with Graphic Display](#) [pdf] Instr
uction Manual
HumiTherm GD Temperature and Humidity Controller with Graphic Display, HumiTherm GD, Te
mperature and Humidity Controller with Graphic Display, Controller with Graphic Display, Graph
ic Display

References

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

[Manuals+](#)