HumiTherm GD 96

'Temperature + RH' Controller
with Graphic Display

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

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

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

Default : Signal Low 0.000 Signal High 5.000

Parameters	Settings (Default Value)
Range LO >>	-199.9 to 999.9 Counts (Default : 0.0)
Range HI >>	-199.9 to 999.9 Counts (Default : 100.0)
Filter Time >>	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

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 >>	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

Default : Signal Low 0.000 Signal High 5.000

Parameters	Settings (Default Value)
Range LO >>	-199.9 to 999.9 Counts (Default : 0.0)
Range HI >>	-199.9 to 999.9 Counts (Default : 100.0)
Filter Time >>	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

FACTORY > COMPRESSOR

Control Strategy : Heat + Cool

COMPRESSOR STRATEGY >>	CONT. OFF CONT. ON SP BASED PV 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 : 45.0)
	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 Level Startegy >>	Single Switch 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 >>	No Yes (Default : No)
New Password >>	0 to 3000 (Default : 321)

FACTORY > EXIT

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

FRONT PANEL KEY

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.

Outer Dimension, Panel Cutout, Spacing & Electrical Connection

Front View

Side View

Panel Cutout

92 X 92 mm
-0, +0.5 mm

(3.622" X 3.622")
(-0", +0.02")

38mm (1.5")   10mm (0.39")

HumiTherm GD 96