

HumiTherm Plus

Recording + Printer Interface

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

101, Diamond Industrial Estate, Navghar, Vasai Road (E), Dist. Palghar - 401 210.
 Sales : 8208199048 / 8208141446
 Support : 07498799226 / 08767395333
 E: sales@ppiindia.net, support@ppiindia.net

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OPERATOR PAGE PARAMETERS	
Parameters	Settings (Default Value)
Select Print Option >>	None Print (New) Re-Print (Old) Print Info Page (Default : None)
Temp. Set Value >>	SP Low Limit to SP High Limit (Default : 25.0)
%RH Set Value >>	SP Low Limit to SP High Limit (Default : 60.0)
Temp. Lo Deviation >>	0.2 to 99.9 (Default : 2.0)
Temp. Hi Deviation >>	0.2 to 99.9 (Default : 2.0)
%RH Lo Deviation >>	0.2 to 99.9 (Default : 2.0)
%RH Hi Deviation >>	0.2 to 99.9 (Default : 2.0)
Change Password >>	1 to 100 (Default : 0)

SUPERVISORY > SENSOR INPUT	
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 > RECORDING	
Parameters	Settings (Default Value)
Recording Interval (min) >>	0 to 250 Min (Default : 5 Min)
Alarm Toggle Records >>	Enable Disable (Default : Enable)
Delete PC Records >>	Yes No (Default : No)
RTC Time >>	0 to 23 for Hour 0 to 59 for Min (Default : NA)
RTC Date >>	1 to 31 (Default : NA)
RTC Month >>	1 to 12 (Default : NA)
RTC Year >>	2000 to 2099 (Default : NA)

SUPERVISORY > PRINTER SETTING	
Parameters	Settings (Default Value)
Line Per Page >>	25 to 100 (Default : 65)
Top Margine >>	1 to 5 (Default : 2)
Bottom Margine >>	1 to 5 (Default : 2)
Header & Footer >>	No On First Page Every Page (Default : No)
Enable >>	Yes No (Default : No)

SUPERVISORY > PRINT EVENT	
Parameters	Settings (Default Value)
Alarm Toggle >>	
RTC Modify >>	
Interval Modify >>	Yes No (Default : Yes)
Power Up >>	
Door Open >>	
Mains Fail >>	
Setpoint Modify >>	

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	
FACTORY > HUMIDITY (%RH) > ALARM	
Parameters	Settings (Default Value)
Hysteresis >>	0.1 to 99.9 (Default : 0.2)
Inhibit >>	Yes No (Default : Yes)

FACTORY > TEMPERATURE > CONTROL	
FACTORY > HUMIDITY (%RH) > CONTROL	
Parameters	Settings (Default Value)
Tune >>	Yes No (Default : No)
Setpoint LO Limit >>	-99.9 to SETPOINT HI LIMIT (Default : 10.0)
Setpoint HI Limit >>	For RTD: Setpoint Lo Limit to 600.0 For mA/V: Setpoint Lo Limit to 999.9 (Default : 60.0)

FACTORY > TEMPERATURE > CONTROL	
FACTORY > HUMIDITY (%RH) > CONTROL	
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	
FACTORY > HUMIDITY (%RH) > SENSOR INPUT	
Parameters	Settings (Default Value)
Input Type >>	* RTD Pt100 0-20mA 4-20mA 0-5V 0-10V 1-5V (Default : For Temp. Input : RTD Pt100 For %RH Input : 0-5V) *Available for Temp. Input only

FACTORY > TEMPERATURE > SENSOR INPUT			
FACTORY > HUMIDITY (%RH) > SENSOR INPUT			
Parameters	Settings (Default Value)		
Signal LO >>	Input Type	Settings	Default
	0 to 20mA	0.00 to Signal High	0.00
	4 to 20mA	4.00 to Signal High	4.00
	0 to 5V	0.000 to Signal High	0.000
	0 to 10V	0.00 to Signal High	0.00
Signal HI >>	Input Type	Settings	Default
	0 to 20mA	Signal Low to 20.00	20.00
	4 to 20mA	Signal Low to 20.00	20.00
	0 to 5V	Signal Low to 5.000	5.000
	0 to 10V	Signal Low to 10.00	10.00
Range LO >>	-199.9 to RANGE HI (Default : 0.0)		
Range HI >>	RANGE LO to 999.9 (Default : 100.0)		

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) >>	Boundary Set Value >>	Compressor SP >>	
0 to 1000 Sec (Default : 200 Sec)	0.0 to 100.0 (Default : 45.0)	0.0 to 100.0 (Default : 45.0)	
	Control Zones >>	Hysteresis >>	
	SINGLE DUAL (Default : SINGLE)	0.1 to 99.9 (Default : 2.0)	
	Time Delay (sec) >>	Time Delay (sec) >>	
	0 to 1000 Sec (Default : 200 Sec)	0 to 1000 Sec (Default : 200 Sec)	

FACTORY > BOILER WATER LEVEL	
Parameters	Settings (Default Value)
Enable >>	Yes No (Default : No)
Water Level Strategy >>	Single Switch Dual Switch Lo-hi Dual Switch Lo-vlo (Default : Single Switch)
Switch-1 Logic >>	Close : Water Lo Open : Water Lo (Default : Close : Water Lo)
Switch-2 Logic >>	Close : Water HI Open : Water HI (Default : Close : Water HI) OR Close : Water VLO Open : Water VLO (Default : Close : Water VLO)

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

FACTORY > MAINS FAILURE	
Parameters	Settings (Default Value)
Enable >>	Yes No (Default : No)
Switch Logic >>	Close : Mains Fail Open : Mains Fail (Default : Close : Mains Fail)

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

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

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

FRONT PANEL KEYS		
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

