

HumiTherm Plus

Recording + PC Software

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

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OPERATOR PARAMETERS	
Parameters	Settings (Default Value)
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)

RECORDING PARAMETERS	
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)
Temp. Zero Offset >>	-50.0 to 50.0 (Default : 0.0)
%RH Zero Offset >>	-50.0 to 50.0 (Default : 0.0)
GSM Machine ID >> (refer note)	1 to 128 (Default : 1)
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)
Device Id >>	1 to 127 (Default : 1)
Change Password >>	1000 to 1999 (Default : 123)

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)

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																		
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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 >>		Settings (Default Value)
		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 >>	Yes / No (Default : No)
Water Level Startegy >>	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 > SMS ALERT	
Parameters	Settings (Default Value)
Enable >> (refer note)	Yes / No (Default : No)
Reset GSM Module >> (refer note)	Yes / No (Default : No)

Note : These parameters are available only if the controller supplied with GSM module version.

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

