



PPI HumiTherm-c Pro Enhanced Temperature Humidity PID Controller User Manual

[Home](#) » [PPI](#) » PPI HumiTherm-c Pro Enhanced Temperature Humidity PID Controller User Manual 

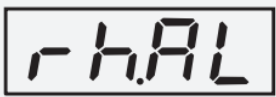
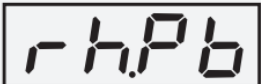
PPI Hum iTherm-c Pro Enhanced Temperature Humidity PID Controller User Manual



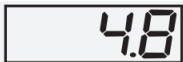
UTILITY PARAMETERS : PAGE-33

Parameters	Settings (Default Value)
Compressor Control Strategy 	Dry Bulb SP Dry Bulb PV (Default : Dry Bulb SP)  
Input Type For Temperature 	Refer Table 1 (Default : RTD)
Signal Low For Temperature 	
Signal High For Temperature 	
DC Range Low For Temperature 	199.9 to 999.9 (Default : 100.0)
DC Range High For Temperature	25.0 to +25.0°C (Default : 0.0)
Input Type For %RH 	The above parameters are for %RH input and the descriptions are the same as their temperature counter parts. Notes 1. RTD Pt100 input selection is not available for %RH. 2. The factory default input type is 0 -5 VDC with corresponding signal low, signal high, range low & range high default values.
Signal High For %RH 	
DC Range Low For %RH 	
DC Range High For %RH 	
Offset For %RH 	

Parameters	Settings (Default Value)
Temperature Alarm Band 	0.3 to 25.0°C (Default : 0.5 °C)
Temperature Alarm Hysteresis 	0.2 to 10.0°C (Default : 0.2 °C)
Temperature Proportional Band 	0.1 to 999.9°C (Default : 5.0 °C)
Temperature Integral Time 	0 to 1000 Seconds (Default : 100)
Temperature Derivative Time 	0 to 250 Seconds (Default : 25)
Temperature Cycle Time 	0.5 to 25.0 Seconds (in steps of 0.5 secs.)

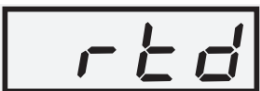
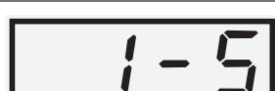
Parameters	Settings (Default Value)
%RH Alarm Band 	0.3 to 25.0% (Default : 2.0)
%RH Alarm Hysteresis 	0.2 to 10.0% (Default : 2.0)
%RH Proportional Band 	0.1 to 999.9% (Default : 10.0)
%RH Integral Time 	0 to 1000 Seconds (Default : 100)
%RH Derivative Time 	0 to 250 Seconds (Default : 25)
%RH Cycle Time 	0.5 to 25.0 Seconds (in steps of 0.5 secs.)

Parameters	Settings (Default Value)
Compressor Output Type 	Default: For Compressor O/P Type : SSR For Alarm O/P type : None)   
Alarm Output Type 	
Compressor Setpoint 	0.0 to 50.0°C or 0.0 to 25.0°C
Compressor Hysteresis 	0.1 to 25.0°C (Default : 0.2)
Compressor Time Delay 	0.00 to 10.00 Min. Sec (in steps of 5 Seconds) (Default : 00.00)

Parameters	Settings (Default Value)
SP Adjustment on PAGE-0 	(Default : Enable)  
Self-Tune Command 	(Default : No)  
Water Level-low Detection Logic 	(Default : Open)  
Slave Id 	1 to 127 (Default : 1)   
Baud Rate 	4800 9600 19200 (Default : 9600)   
Parity 	None Even Odd (Default : Even)   

Parameters	Settings (Default Value)
Compressor Operation Mode 	(Default : Auto)   
Output Power for Temperature Loop 	0 to 100.0% (View Only – Non editable)
Output Power for %RH Loop 	0 to 100.0% (View Only – Non editable)

Table 1

Option	What it means	Range (Min. to Max.)
	3-wire, RTD Pt100	-199.9 to 600.0°C / -199.9 to 999.9° F
	0 to 20mA DC current	Refer Parameters Signal Low Signal High Range Low Range High
	4 to 20mA DC current	
	Reserved (Don't Select)	
	0 to 1.25V DC voltage	
	0 to 5.0V DC voltage	
	0 to 10.0V DC voltage	
	1 to 5.0V DC voltage	

Contents

1 FRONT PANEL LAYOUT ELECTRICAL CONNECTIONS

2 ELECTRICAL CONNECTIONS

3 WIRING CONNECTION

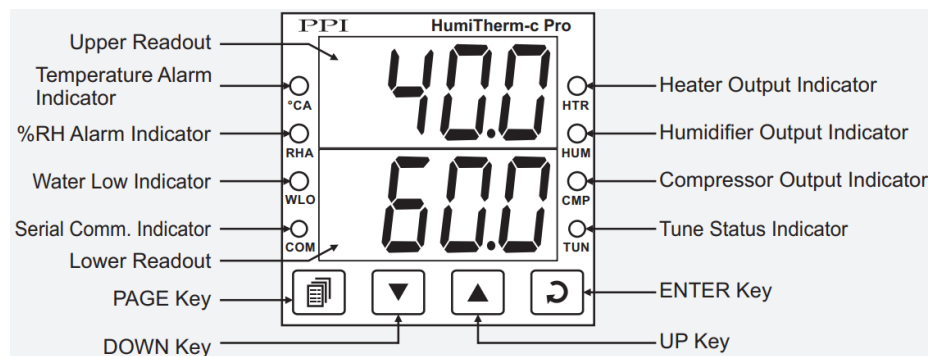
4 Documents / Resources

4.1 References

5 Related Posts

FRONT PANEL LAYOUT ELECTRICAL CONNECTIONS

Front Panel



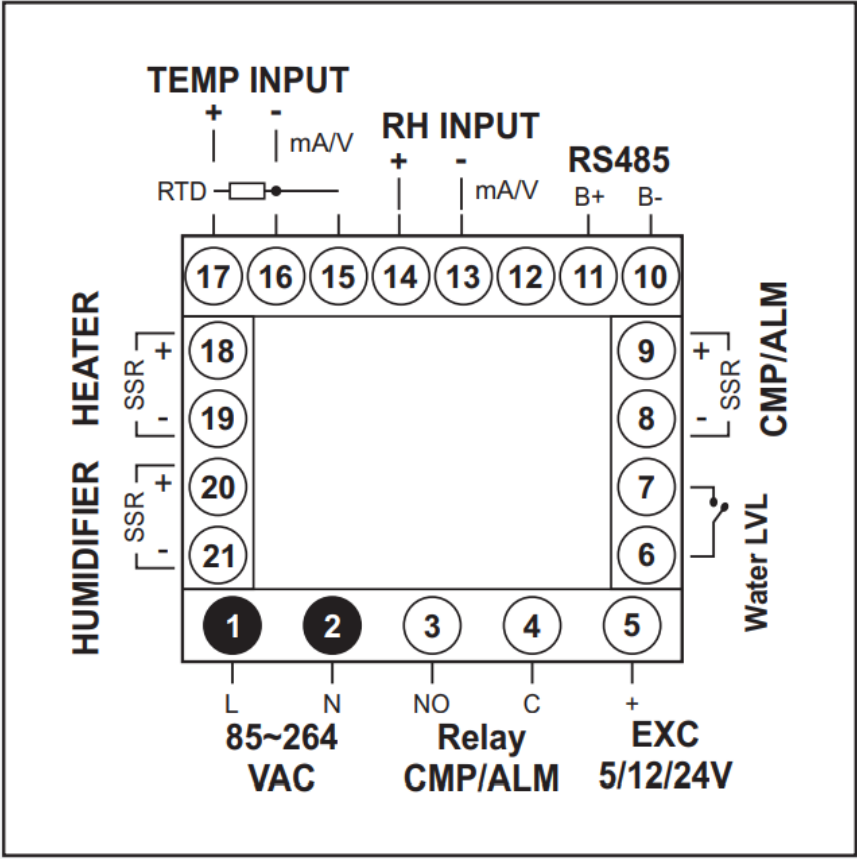
Keys Operation

Symbol	Key	Function
	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 on the PAGE.

PV Error Indications

Message	PV Error Type
	Over-range(Dry-Bulb Temp. above Max. Range)
	Under-range(Dry-Bulb Temp. below Min. Range)
	Open(Sensor open / broken)

ELECTRICAL CONNECTIONS



WIRING CONNECTION

RH SENSORS

R= Red
G= Green
B= Black

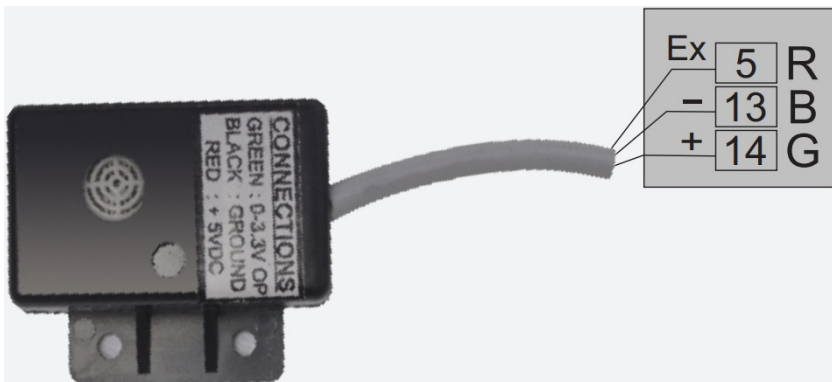
- (Humirel RH sensor)



- (IST RH sensor)



- (Capacitance RH sensor)

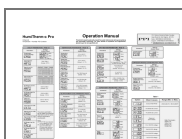


Enhanced 'Temperature + Humidity' PID Controller

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

PPI

Documents / Resources



[PPI HumiTherm-c Pro Enhanced Temperature Humidity PID Controller](#) [pdf] User Manual
HumiTherm-c Pro Enhanced Temperature Humidity PID Controller, HumiTherm-c Pro, Enhanced Temperature Humidity PID Controller, Temperature Humidity PID Controller, Humidity PID Controller, Controller

References

- [Factory Automation Products India](http://www.factoryautomationproductsindia.com) | [Automation Solutions in India](http://www.automationproductsindia.com)

