



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

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PPI HumiTherm-c Pro 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.

TEMPERATURE PARAMETERS

Parameters	Settings (Default Value)
Alarm Band <i>db.AL</i>	0.3 to 25.0°C (Default : 0.5 °C)
Alarm Hysteresis <i>db.HY</i>	0.2 to 10.0°C (Default : 0.2 °C)
Proportional Band (For T+RH mode) <i>db.Pb</i>	0.1 to 999.9°C (Default : 5.0 °C)
Integral Time (For T+RH mode) <i>db.it</i>	0 to 1000 Seconds (Default : 100)
Derivative Time (For T+RH mode) <i>db.dt</i>	0 to 250 Seconds (Default : 25)
Proportional Band (For Temp only mode) <i>Pb</i>	0.1 to 999.9°C (Default : 5.0 °C)
Integral Time (For Temp only mode) <i>it</i>	0 to 1000 Seconds (Default : 100)
Derivative Time (For Temp only mode) <i>dt</i>	0 to 250 Seconds (Default : 25)
Cycle Time <i>db.ct</i>	0.5 to 25.0 Seconds (in steps of 0.5 secs.) (Default : 1.0)

RELATIVE HUMIDITY (% RH) PARAMETERS:

Parameters	Settings (Default Value)
%RH Alarm Band rhAL	0.3 to 25.0% (Default : 2.0)
%RH Alarm Hysteresis rhHY	0.2 to 10.0% (Default : 2.0)
%RH Proportional Band rhPB	0.1 to 999.9% (Default : 10.0)
%RH Integral Time rhIT	0 to 1000 Seconds (Default : 100)
%RH Derivative Time rhDT	0 to 250 Seconds (Default : 25)
%RH Cycle Time rhCT	0.5 to 25.0 Seconds (in steps of 0.5 secs.) (Default : 1.0)

OP3 FUNCTION PARAMETERS:

Parameters	Settings (Default Value)
Compressor Setpoint CPSP	0.0 to 50.0°C or 0.0 to 25.0°C (Default : 45.0 or 0.2)
Compressor Hysteresis CPHY	0.1 to 25.0°C (Default : 0.2)
Compressor Time Delay CTDY	0.00 to 10.00 Min. Sec (in steps of 5 Seconds) (Default : 00.00)

SUPERVISORY PARAMETERS:

Parameters	Settings (Default Value)
SP Adjustment on PAGE-0 SP	dsbl Disable Enbl Enable (Default : Enable)
Self-Tune Command tUnE	no No YES Yes (Default : No)
Water Level-low Detection Logic ULLG	OPEn Open CLoS Close (Default : Open)
Slave Id Id	1 to 127 (Default : 1)
Baud Rate bAUD	4.8 4800 9.6 9600 19.2 19200 (Default : 9600)
Parity PARi	nonE None EuEn Even Odd Odd (Default : Even)
Communication Write Enable ConE	no No YES Yes (Default : Yes)

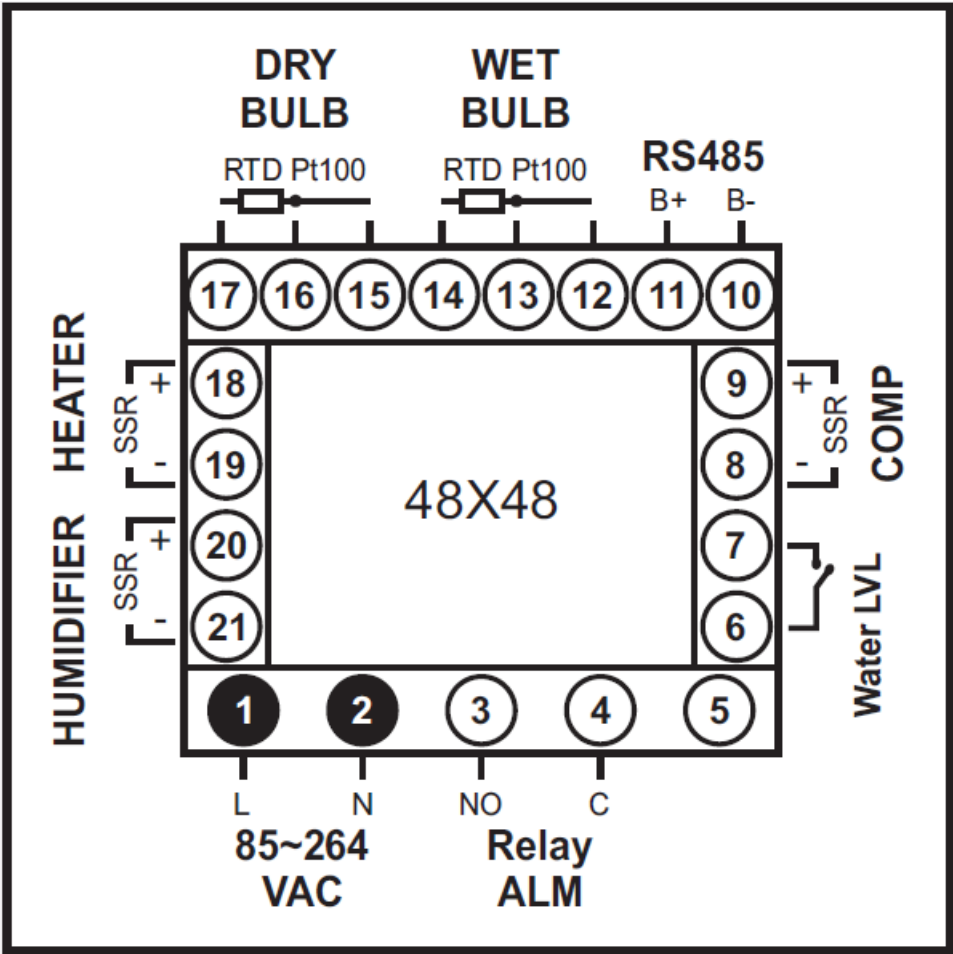
UTILITY PARAMETERS:

Parameters	Settings (Default Value)
Compressor Control Strategy CPSt	db.SP Dry Bulb SP db.PV Dry Bulb PV (Default : Dry Bulb SP)
Zero Offset for Dry-Bulb Temperature Value db.OF	-25.0 to +25.0°C (Default : 0.0)
Zero Offset for Wet Bulb Temperature Value wb.OF	-25.0 to +25.0°C (Default : 0.0)
Zero Offset for RH Value rh.OF	-25.0 to +25.0°C (Default : 0.0)

COMPRESSOR OPERATION & POWER INDICATION:

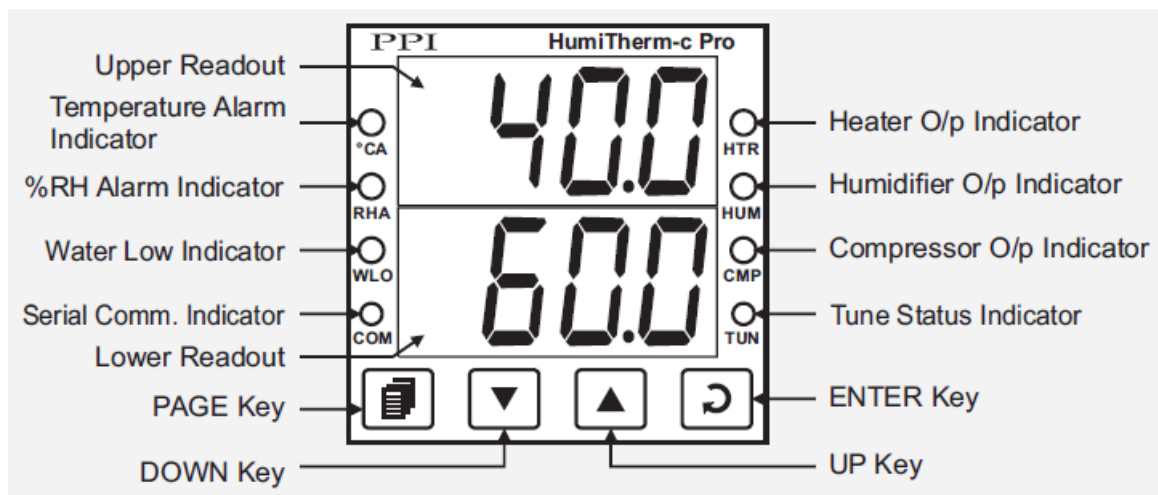
Parameters	Settings (Default Value)
Compressor Operation Mode CP.OP	On On OFF Off AUTO Automatic (Default : Auto)
Wet Bulb Temperature Setpoint 46.5P	0 to 100.0% (View Only - Non editable)
Output Power for Temperature Loop OUT.1	0 to 100.0% (View Only - Non editable)
Output Power for %RH Loop OUT.2	0 to 100.0% (View Only - Non editable)

ELECTRICAL CONNECTIONS



FRONT PANEL LAYOUT

Front Label



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

PV Error Indications For Dry Bulb Temperature (Upper Readout)

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

PV Error Indications For Relative Humidity (RH) (Lower Readout)

Message	PV Error Type
	Over-range (Wet-Bulb Temp. above Max. Range)
	Under-range (Wet-Bulb Temp. below Min. Range)
	Open (Sensor open / broken)
	Either Dry Bulb Temp. is below – 20.0°C or above 162.0°C. The error may also occur if Wet Bulb depression is more than 60.0°C.

Contact Information

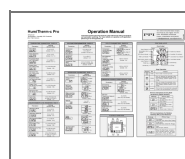
101, Diamond Industrial Estate, Navghar, Vasai Road (E), Dist. Palghar – 401 210.

Sales: 8208199048 / 8208141446

Support: 07498799226 / 08767395333

E: sales@ppiindia.net, support@ppiindia.net.

Documents / Resources



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

References

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