

HumiTherm-i

Composite Temperature + Humidity Indicator
Version : RTD Pt100, 3-wire for Temperature
DC Linear (Voltage) for Humidity



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

PPI

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

Jan 2022

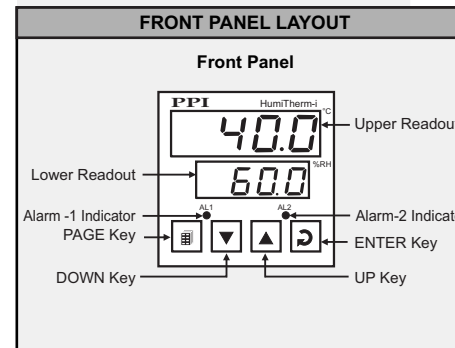
ALARM PARAMETERS FOR TEMPERATURE: PAGE-10	
Parameters	Settings (Default Value)
Temperature Alarm Type TYPE	none None P_Lo Process Low P_Hi Process High (Default : None)
Temperature Alarm Setpoint ALSP	-50.0 to 150.0°C or -58.0 to 302.0°F (Default : For Process Low : -50.0 For Process High : 150.0)
Temperature Alarm Hysteresis ALHY	0.1 to 25.0 °C or °F (Default : 0.2)
Temperature Alarm Logic ALLO	d_i_r Direct r_e_v Reverse (Default : Direct)
Temperature Alarm Inhibit ALi_h	no No YES Yes (Default : Yes)

ALARM PARAMETERS FOR RELATIVE HUMIDITY: PAGE-11	
Parameters	Settings (Default Value)
Alarm Type TYPE	none None P_Lo Process Low P_Hi Process High (Default : None)
%RH Alarm Setpoint ALSP	0.0 to 100.0% (Default : For Process Low : 0.0 For Process High : 100.0)
%RH Alarm Hysteresis ALHY	0.1 to 25.0% (Default : 0.2)
%RH Alarm Logic ALLO	d_i_r Direct r_e_v Reverse (Default : Direct)
%RH Alarm Inhibit ALi_h	no No YES Yes (Default : Yes)

ZERO-OFFSET PARAMETERS: PAGE-12	
Parameters	Settings (Default Value)
Zero Offset for Temp. Value db.oF	-25.0 to +25.0°C (Default : 0.0)
Zero Offset for %RH Value rh.oF	-25.0 to +25.0% (Default : 0.0)

SUPERVISORY PARAMETERS: PAGE-13	
Parameters	Settings (Default Value)
Unit Selection for Temperature Unit	°C °C °F °F (Default : °C)
Dry-Bulb Temperature and % RH Min / Max Monitoring Hi_Lo	no No YES Yes (Default : No)
Password For Resetting PV High - Low Code	0 to 250 (Default : 0)
Baud Rate BAUD	1200 2400 4800 9600 (Default : 4800)
ID Number for Temperature Loop db.id	1 to 8 (Default : 1)
ID Number for RH Loop rh.id	1 to 8 (Default : 2)

OPERATOR PAGE AND PARAMETERS : PAGE - 0	
Parameters	Settings (Default Value)
Maximum Dry Bulb Temperature Value db.Hi	View Only
Minimum Dry - Bulb Temperature Value db.Lo	View Only
Maximum %RH Value rh.Hi	View Only
Minimum Peak of RH rh.Lo	View Only
Reset Command rSt	no No YES Yes (Default : No)
Reset Pass - Code Code	0 to 250 (Default : 0)



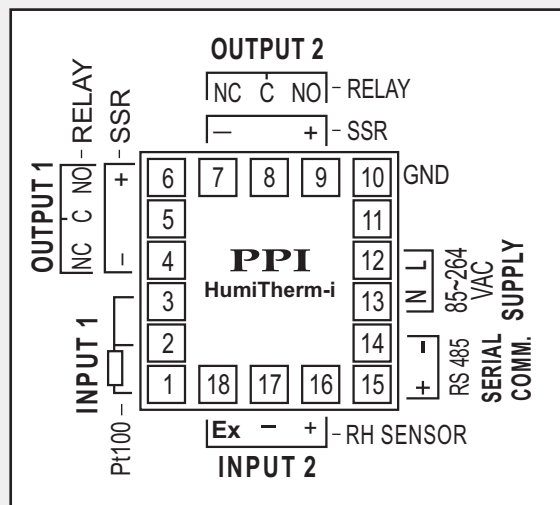
Keys Operation

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
Or	Over-range (Dry-Bulb Temp. above Max. Range)
Ur	Under-range (Dry-Bulb Temp. below Min. Range)
OPEN	Open (Sensor open / broken)

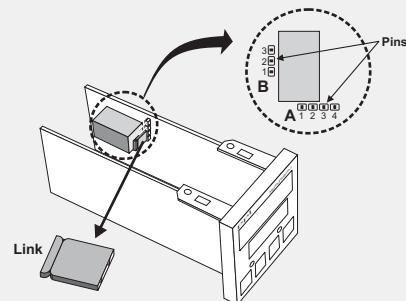
ELECTRICAL CONNECTIONS



JUMPER SETTINGS

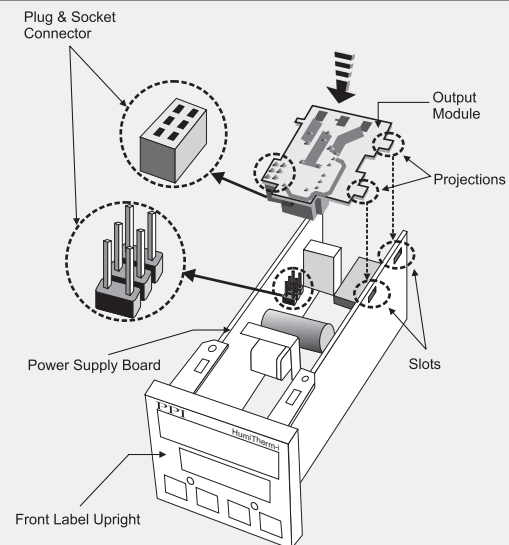
OUTPUT-1

Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR Voltage Pulses		

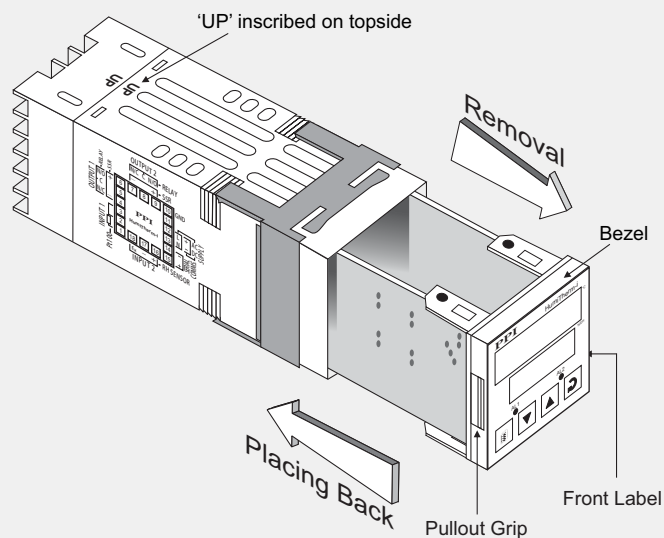


MOUNTING DETAILS

OUTPUT-2 MODULE



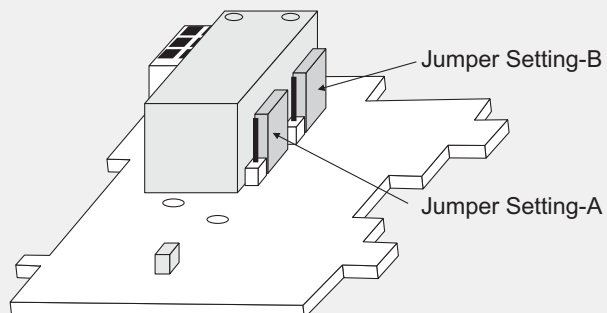
ENCLOSURE ASSEMBLY



JUMPER SETTINGS

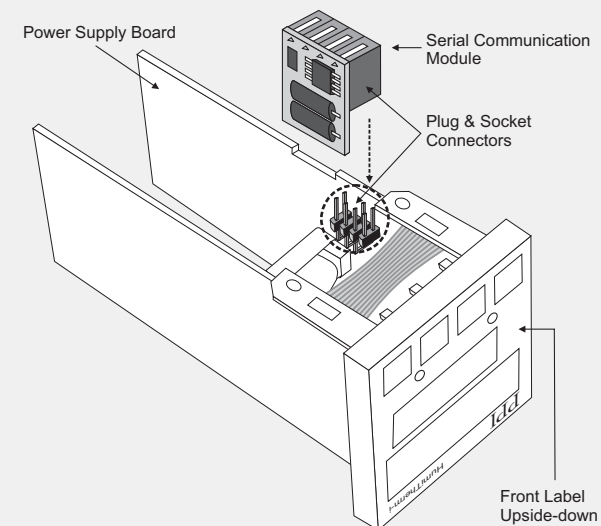
OUTPUT-2

Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR Voltage Pulses		



MOUNTING DETAILS

SERIAL COMM. MODULE



HumiTherm-i

Composite Temperature + Humidity Indicator

Version : RTD Pt100, 3-wire Dry Bulb for Temperature &
RTD Pt100, 3-wire Wet Bulb for Humidity



Operation Manual

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ALARM PARAMETERS FOR TEMPERATURE : PAGE 10	
Parameters	Settings (Default Value)
Alarm Type TYPE	none None P_Lo Process Low P_Hi Process High (Default : None)
Alarm Setpoint AL.SP	-50.0 to 150.0°C or -58.0 to 302.0°F (Default : For Process Low : -50.0 For Process High : 150.0)
Alarm Hysteresis AL.HY	0.1 to 25.0 °C or °F (Default : 0.2)
Alarm Logic AL.LG	dir Direct rev Reverse (Default : Direct)
Alarm Inhibit AL.h	no No yes Yes (Default : Yes)

ALARM PARAMETERS FOR RELATIVE HUMIDITY : PAGE 11	
Parameters	Settings (Default Value)
Alarm Type TYPE	none None P_Lo Process Low P_Hi Process High (Default : None)
Alarm Setpoint AL.SP	0.0 to 100.0% (Default : For Process Low : 0.0 For Process High : 100.0)
Alarm Hysteresis AL.HY	0.1 to 25.0% (Default : 0.2)
Alarm Logic AL.LG	dir Direct rev Reverse (Default : Direct)
Alarm Inhibit AL.h	no No yes Yes (Default : Yes)

ZERO-OFFSET PARAMETERS : PAGE 12	
Parameters	Settings (Default Value)
Zero Offset for Dry Bulb Temp. db.oF	-25.0 to +25.0°C (Default : 0.0)
Zero Offset for Wet Bulb Temp. wb.oF	-25.0 to +25.0°C (Default : 0.0)
Zero Offset for RH Value rh.oF	-25.0 to +25.0% (Default : 0.0)

UTILITY PARAMETERS : PAGE 13	
Parameters	Settings (Default Value)
Unit Selection for PV Unit	°C °C °F °F (Default : °C)
Dry-Bulb Temperature and % RH High-Low Monitoring Hi.Lo	no No yes Yes (Default : No)
Password For Resetting PV High - Low Code	0 to 250 (Default : 0)
Baud Rate bAud	1200 2400 4800 9600 (Default : 4800)
ID for Temperature Loop db.Id	1 to 8 (Default : 1)
ID for %RH Loop rh.Id	1 to 8 (Default : 2)

FRONT PANEL LAYOUT

Front Panel

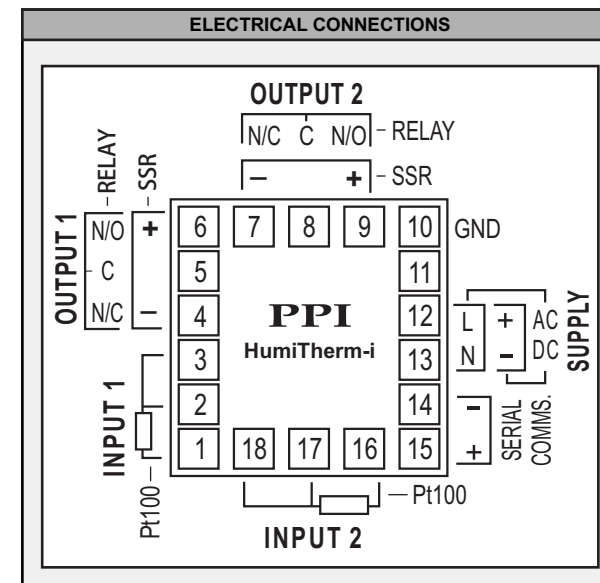
Upper Readout
Lower Readout
Alarm -1 Indicator
PAGE Key
DOWN Key
Alarm-2 Indicator
ENTER Key
UP Key

Keys Operation

Symbol	Key	Function
	PAGE	Press to enter or exit set-up mode.
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	ENTER	Press to store the set parameter value and to scroll to the next parameter on the PAGE.

PV Error Indications

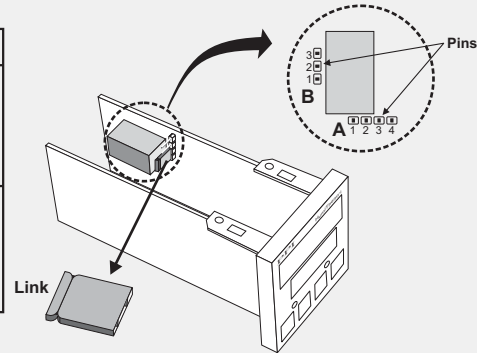
Message	PV Error Type
Or	Over-range (Dry-Bulb Temp. above Max. Range)
Ur	Under-range (Dry-Bulb Temp. below Min. Range)
OPEN	Open (RTD Pt100 (Dry Bulb) Sensor open / broken)



JUMPER SETTINGS

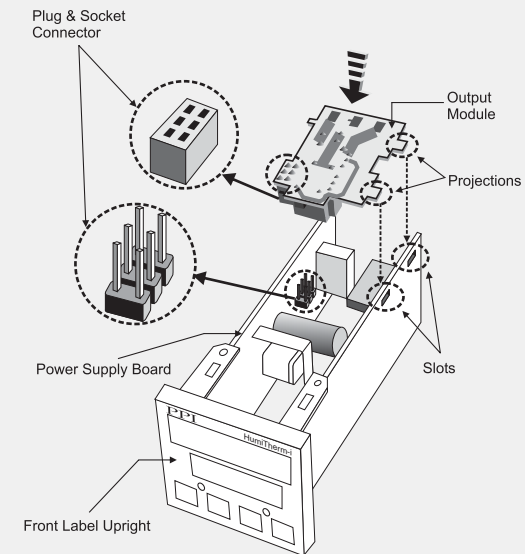
OUTPUT-1

Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR Voltage Pulses		

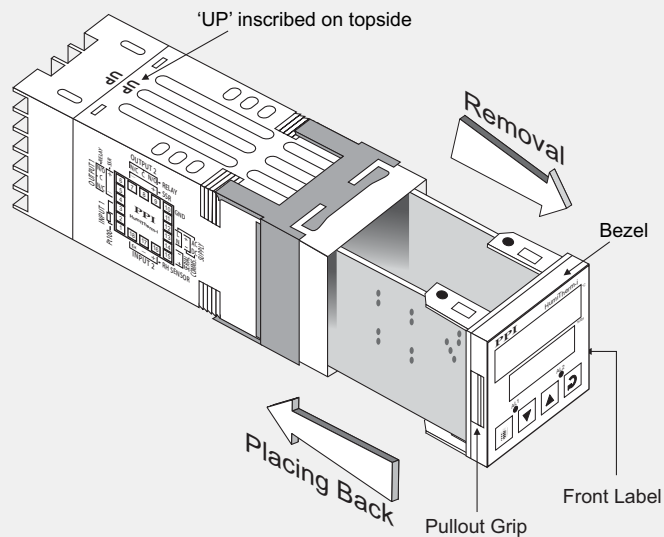


MOUNTING DETAILS

OUTPUT-2 MODULE



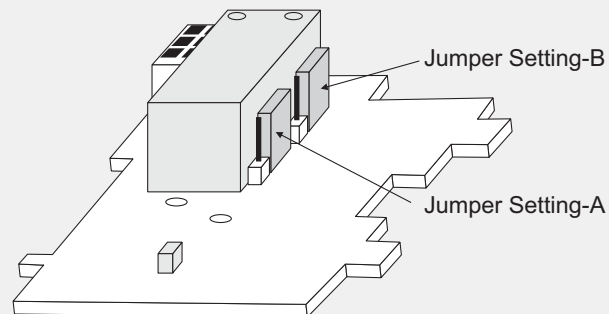
ENCLOSURE ASSEMBLY



JUMPER SETTINGS

OUTPUT-2

Output Type	Jumper Setting - A	Jumper Setting - B
Relay		
SSR Voltage Pulses		



MOUNTING DETAILS

SERIAL COMM. MODULE

