



PPI HumiTherm-iS Temperature Humidity Indicator User Manual

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PPI HumiTherm-iS Temperature Humidity Indicator



HumiTherm-iS

Advanced 'Temperature + Humidity' Indicator with Control & Alarms

Product Information

The HumiTherm-iS is an advanced temperature and humidity indicator with control and alarms. It provides temperature and humidity control setpoints, as well as temperature and humidity alarm setpoints with low and high limits. The device also features ON-OFF control parameters, alarm parameters, input configuration parameters, and supervisory parameters. It has a range of input types including RTD, 0-20mA, 4-20mA, 0-50mV, 0-200mV, 0-1.25V, 0-5V, 0-10V, and 1-5V.

Product Usage Instructions

1. Set the operator page and parameters on PAGE 0. Select the channel for temperature or humidity control setpoint. Set the temperature or humidity alarm setpoints with low and high limits.
2. Adjust the ON-OFF control parameters on PAGE 11. Select the channel for temperature or humidity control function. Enable the control mode and set the setpoint low limit, setpoint high limit, and hysteresis.
3. Configure the alarm parameters on PAGE 10. Select the channel for temperature or humidity alarm function. Set the alarm type and hysteresis for Alarm-1 and Alarm-2. Enable or disable the alarm latch and alarm inhibit.
4. Configure the input type on PAGE 12. Select the channel for temperature or humidity input type. Set the signal low, signal high, range low, range high, and offset.
5. Adjust the supervisory parameters on PAGE 13. Enable or disable the control set-point adjustment and alarm set-point adjustment on the operator page. Enable or disable the remote acknowledge switch and password for resetting min/max. Set the baud rate, parity, device slave ID, and serial write permission.

For more details on operation and application, please log on to www.ppiindia.net.

OPERATOR PAGE AND PARAMETERS

Parameters	Settings (Default Value)
Reset Command rSt	no No YES Yes (Default : No)
Reset Password COdE	0 to 9999 (Default : 0)
Select Channel SEL	0C Temp rh Humidity (Default : Temp)
Temperature Control Setpoint or RH Control Setpoint 0CSP rhSP	Setpoint Low Limit to Setpoint High Limit (Default : 0.0)
Temperature or RH Alarm-1 Setpoint A1SP	
Temperature or RH Alarm-2 Setpoint A2SP	

ON-OFF CONTROL PARAMETERS

Parameters	Settings (Default Value)
Select Channel SEL	0C Temp rh Humidity (Default : Temp)
Control Function Ctrl	dSbL Disable EnbL Enable (Default : Disable)
Control Mode TYPE	Cool Cool } Temp. Channel HEAT Heat } (Default : Heat) dhUā De-hum } RH Channel hUā Hum } (Default : Hum)
Setpoint Low Limit SP.Lo	Input Type Minimum Range to Setpoint High Limit (Default : 0.0)
Setpoint High Limit SP.Hi	Setpoint Low Limit to Input Type Maximum Range (Default : 100.0)
Hysteresis HYSt	0.1 to 99.9 (Default : 2.0)

ALARM PARAMETERS

Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Alarm Function ALFC	ALrā Alarm tr, P Trip (Default : Alarm)
Alarm Latch ALLE	no No YES Yes (Default : No)
Alarm-1 Type AL_1	none None P_Lo Process Low P_Hi Process High (Default : None)
Alarm-1 Hysteresis A1HY	0.2 to 99.9 (Default : 2.0)
Alarm-1 Inhibit A1.h	no No YES Yes (Default : Yes)
Alarm 2 Type AL_2	none None P_Lo Process Low P_Hi Process High (Default : None)
Alarm-2 Hysteresis A2HY	0.2 to 99.9 (Default : 2.0)
Alarm-2 Inhibit A2.h	no No YES Yes (Default : Yes)

INPUT CONFIGURATION PARAMETERS

Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)

Parameters	Settings (Default Value)																											
Input Type inPt	rtd RTD 0-20 0 - 20mA 4-20 4 - 20mA 0050 0.050 V 0200 0.200 V 1.25 1.25 V 5.0 5.0 V 10.0 10.0 V 1-5 1 - 5 V (Default : RTD)																											
Signal Low SLo	<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20mA</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>4 to 20mA</td><td>4.00 to Signal High</td><td>4.00</td></tr><tr><td>0 to 50mV</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>0 to 200mV</td><td>0.0 to Signal High</td><td>0.0</td></tr><tr><td>0 to 1.25 V</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>0 to 5 V</td><td>0.000 to Signal High</td><td>0.000</td></tr><tr><td>0 to 10 V</td><td>0.00 to Signal High</td><td>0.00</td></tr><tr><td>1 to 5 V</td><td>1.000 to Signal High</td><td>1.000</td></tr></table>	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 50mV	0.00 to Signal High	0.00	0 to 200mV	0.0 to Signal High	0.0	0 to 1.25 V	0.00 to Signal High	0.00	0 to 5 V	0.000 to Signal High	0.000	0 to 10 V	0.00 to Signal High	0.00	1 to 5 V	1.000 to Signal High	1.000
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 50mV	0.00 to Signal High	0.00																										
0 to 200mV	0.0 to Signal High	0.0																										
0 to 1.25 V	0.00 to Signal High	0.00																										
0 to 5 V	0.000 to Signal High	0.000																										
0 to 10 V	0.00 to Signal High	0.00																										
1 to 5 V	1.000 to Signal High	1.000																										
Signal High SHI	<table><tr><th>Input Type</th><th>Settings</th><th>Default</th></tr><tr><td>0 to 20mA</td><td>20.00 to Signal Low</td><td>20.00</td></tr><tr><td>4 to 20mA</td><td>20.00 to Signal Low</td><td>20.00</td></tr><tr><td>0 to 50mV</td><td>50.00 to Signal Low</td><td>50.00</td></tr><tr><td>0 to 200mV</td><td>200.0 to Signal Low</td><td>200.0</td></tr><tr><td>0 to 1.25 V</td><td>1.250 to Signal Low</td><td>1.250</td></tr><tr><td>0 to 5 V</td><td>5.000 to Signal Low</td><td>5.000</td></tr><tr><td>0 to 10 V</td><td>10.00 to Signal Low</td><td>10.00</td></tr><tr><td>1 to 5 V</td><td>5.000 to Signal Low</td><td>5.000</td></tr></table>	Input Type	Settings	Default	0 to 20mA	20.00 to Signal Low	20.00	4 to 20mA	20.00 to Signal Low	20.00	0 to 50mV	50.00 to Signal Low	50.00	0 to 200mV	200.0 to Signal Low	200.0	0 to 1.25 V	1.250 to Signal Low	1.250	0 to 5 V	5.000 to Signal Low	5.000	0 to 10 V	10.00 to Signal Low	10.00	1 to 5 V	5.000 to Signal Low	5.000
Input Type	Settings	Default																										
0 to 20mA	20.00 to Signal Low	20.00																										
4 to 20mA	20.00 to Signal Low	20.00																										
0 to 50mV	50.00 to Signal Low	50.00																										
0 to 200mV	200.0 to Signal Low	200.0																										
0 to 1.25 V	1.250 to Signal Low	1.250																										
0 to 5 V	5.000 to Signal Low	5.000																										
0 to 10 V	10.00 to Signal Low	10.00																										
1 to 5 V	5.000 to Signal Low	5.000																										
Range Low rLo	-199.9 to 999.9 (Default : 0.0)																											
Range High rHI	-199.9 to 999.9 (Default : 100.0)																											
Offset OFSt	-99.9 to 99.9 (Default : 0.0)																											

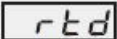
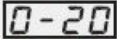
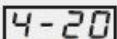
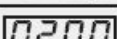
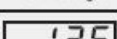
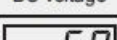
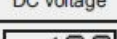
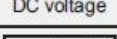
SUPERVISORY PARAMETERS

Parameters	Settings (Default Value)
Control Set-point Adjustment on Operator Page S.P.OP	d5bL Disable EnbL Enable (Default : Disable)
Alarm Set-point Adjustment on Operator Page AL.OP	d5bL Disable EnbL Enable (Default : Disable)
Remote Acknowledge Switch rñt.A	d5bL Disable EnbL Enable (Default : Disable)
Password For Resetting Min/Max COdE	1 to 9999 (Default : 0)
Baud Rate bAUD	48 4800 96 9600 192 19200 384 38400 576 57600 (Default : 9.6)
Parity PAR ,	nonE Nonp EuEn Even Odd Odd (Default : Even)
Device Slave ID Id	1 to 127 (Default : 1)
Serial Write Permission CoñE	no No YES Yes (Default : No)

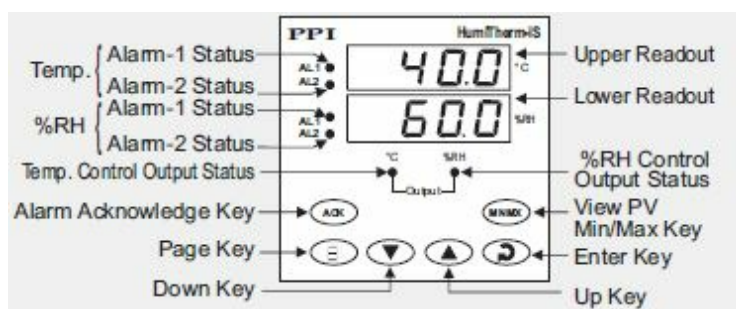
RECORDER (RETRANSMISSION) PARAMETERS

Parameters	Settings (Default Value)
Select Channel SEL	0C Temp rh Humidity (Default : Temp)
Recorder Output Type rEC.o	0-20 0 - 20mA 4-20 4 - 20mA 0-5 0 - 5 V 0-10 0 - 10 V (Default : 4 - 20mA)
Parameters	Settings (Default Value)
Recorder Low rEC.L	Input Type Minimum Range to Input Type Maximum Range (Default : 0.0)
Recorder High rEC.H	Input Type Minimum Range to Input Type Maximum Range (Default : 100.0)

TABLE- 1

Option	Range (Min. to Max.)	Resolution
 3-wire, RTD Pt100	-199.9 to +600.0°C	0.1 °C
 0 to 20mA DC current	-199.9 to 999.9 units	0.1 units
 4 to 20mA DC current		
 0 to 50mV DC voltage		
 0 to 200mV DC voltage		
 0 to 1.25V DC voltage		
 0 to 5.0V DC voltage		
 0 to 10.0V DC voltage		
 1 to 5.0V DC voltage		

FRONT PANEL LAYOUT



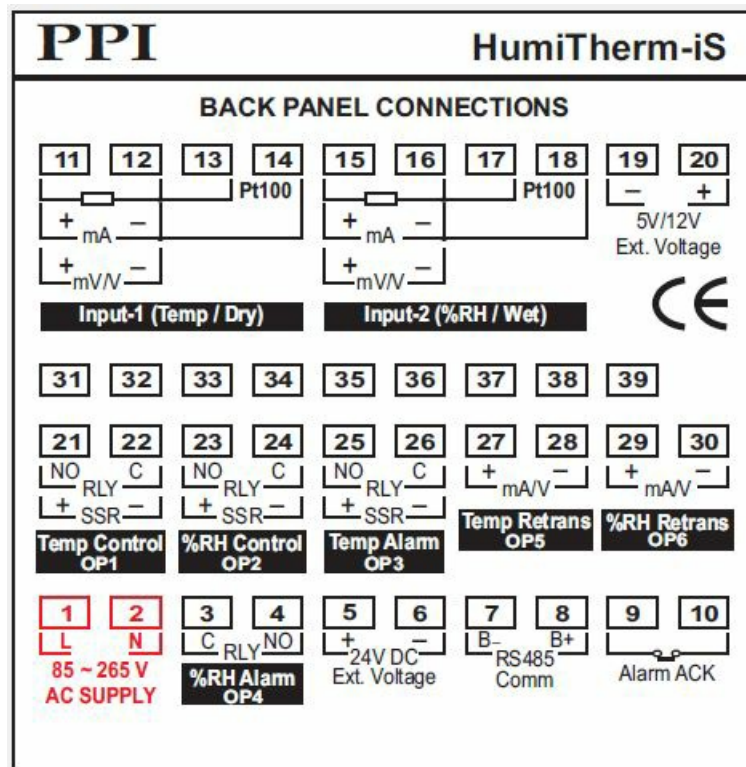
Keys Operation

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.
	ALARM ACKNOWLEDGE	Press to acknowledge any pending Alarm(s). This also turns-off the Alarm relay.
	PV MIN/MAX	Press to view minimum & maximum process values of Temperature RH

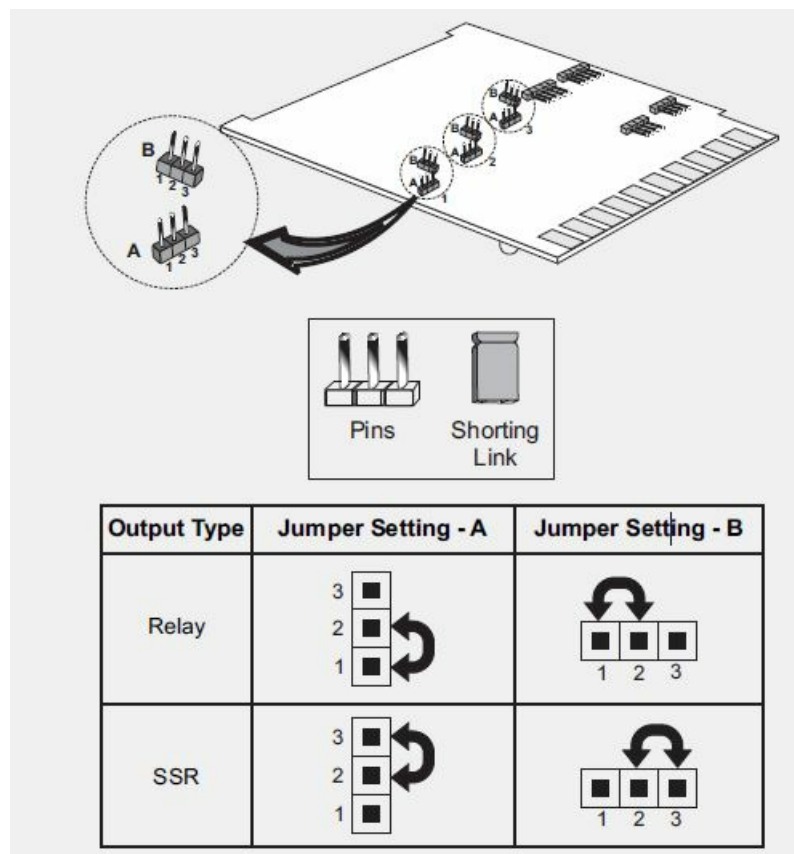
PV Error Indications

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

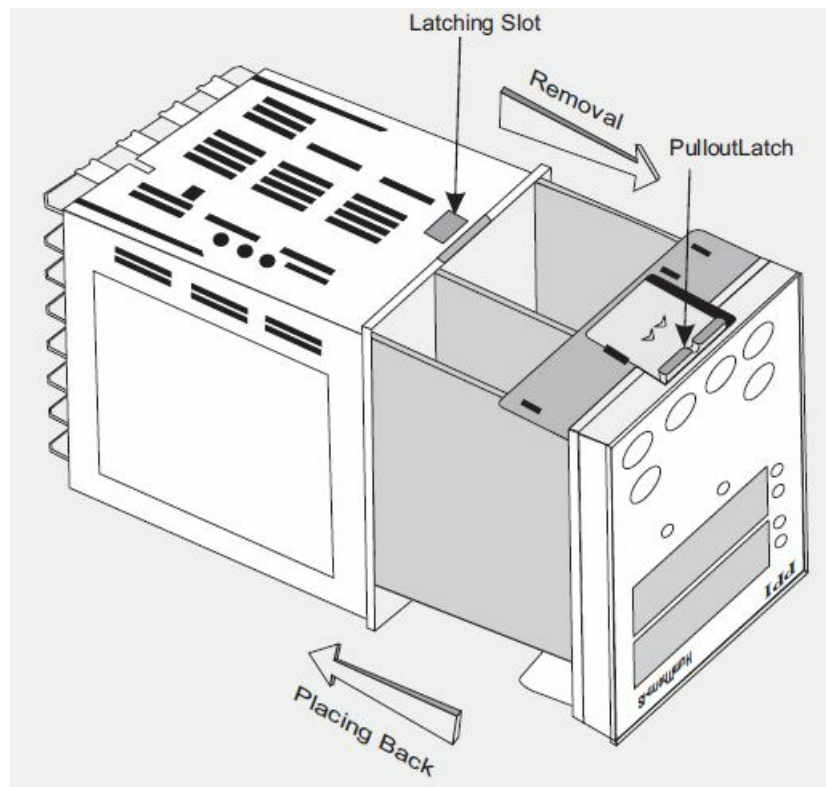
ELECTRICAL CONNECTIONS



JUMPER SETTINGS

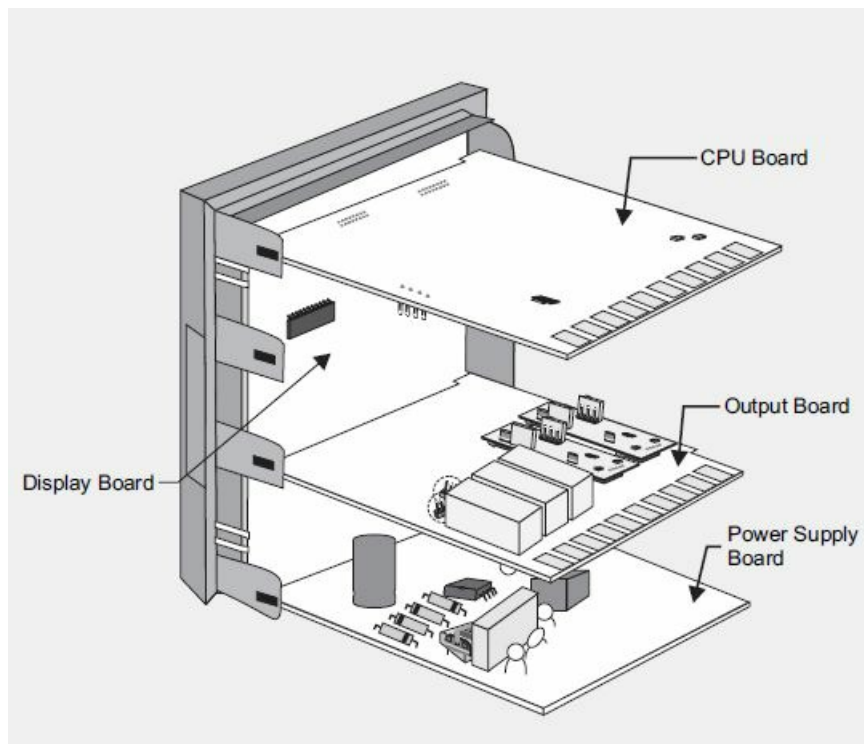


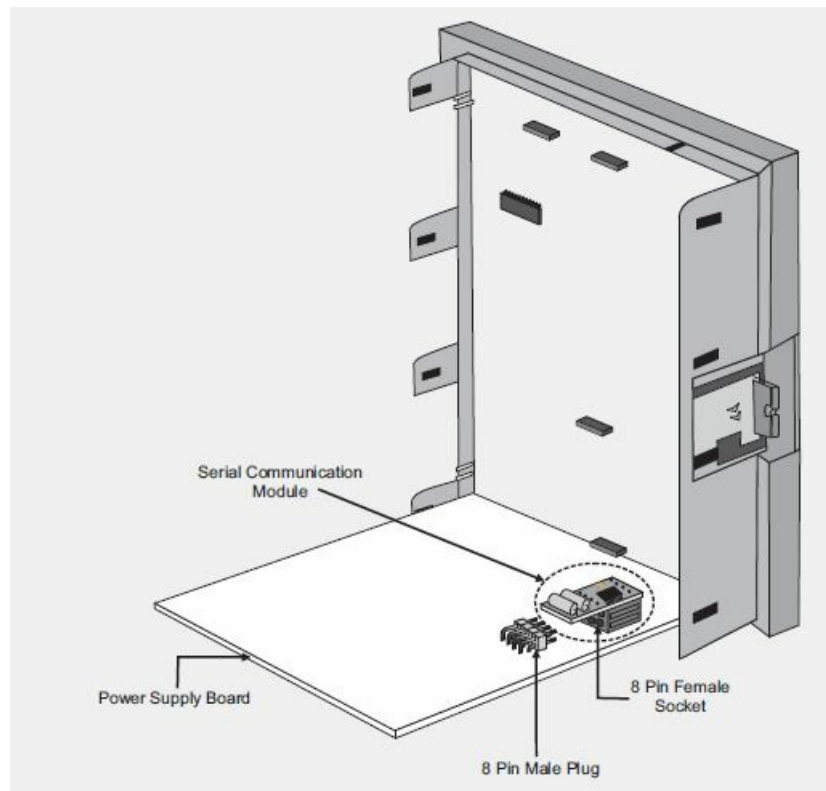
ENCLOSURE ASSEMBLY



MOUNTING DETAILS

SERIAL COMM. MODULE





CONTACT

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

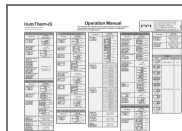
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Documents / Resources



[PPI HumiTherm-iS Temperature Humidity Indicator \[pdf\] User Manual](#)

HumiTherm-iS Temperature Humidity Indicator, HumiTherm-iS, Temperature Humidity Indicator, Humidity Indicator, Indicator

References

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