HumiTherm-iS Pro

Enhanced
'Temperature + Humidity' Indicator
(with Dry/Wet RTD Input Selection)

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 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 Password CodE	0 to 9999 (Default : 0)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Temperature Control Setpoint or RH Control Setpoint °C.SP rh.SP **Temperature or RH Alarm-1 Setpoint** A1.SP **Temperature or RH Alarm-2 Setpoint** A2.SP	Setpoint Low Limit to Setpoint High Limit (Default : 0.0)

ALARM PARAMETERS : PAGE-10

Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Alarm Function ALFC	ALrn Alarm trip Trip (Default : Alarm)
Alarm Latch ALLt	no No YES Yes (Default : No)

ALARM PARAMETERS : PAGE-10

Parameters	Settings (Default Value)
Alarm-1 Type A1tY	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 A2tY	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)

ON-OFF CONTROL PARAMETERS : PAGE 11

Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Control Function CtrL	dSbL Disable EnbL Enable (Default : Disable)
Control Mode tYPE	CooL Cool, HEAt Heat — Temp. Channel (Default : Heat)
	dhUm De-hum, hUm Hum — RH Channel (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)

INPUT CONFIGURATION PARAMETERS : PAGE 12

Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Input Type inPt	Refer Table 1 (Default For Temp. : RTD, For RH : 0 to 5.0)
Signal Low SiLo	See table below
Signal High SiHi	See table below
Range Low ri.Lo	-199.9 to 999.9 (Default : 0.0)
Range High ri.Hi	-199.9 to 999.9 (Default : 100.0)
Offset OFSt	-99.9 to 99.9 (Default : 0.0)
Filter FiLt	0.5 to 60.0 Seconds (in steps of 0.5 Seconds) (Default : 2.0 sec.)

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 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	20.00 to Signal Low	20.00
4 to 20mA	20.00 to Signal Low	20.00
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

SUPERVISORY PARAMETERS : PAGE 13

Parameters	Settings (Default Value)
Control Set-point Adjustment on Operator Page SP.OP	dSbL Disable EnbL Enable (Default : Disable)
Alarm Set-point Adjustment on Operator Page AL.OP	dSbL Disable EnbL Enable (Default : Disable)
Remote Acknowledge Switch rmt.A	dSbL Disable EnbL Enable (Default : Disable)
Password For Resetting Min/Max CodE	1 to 9999 (Default : 0)
Device Slave ID Id	1 to 127 (Default : 1)
Baud Rate bAUd	4.8 4800 9.6 9600 19.2 19200 (Default : 9.6)
Parity PAr1	nonE None EuEn Even Odd Odd (Default : Even)
Serial Write Permission ConE	no No YES Yes (Default : No)

RETRANSMISSION PARAMETERS : PAGE 15

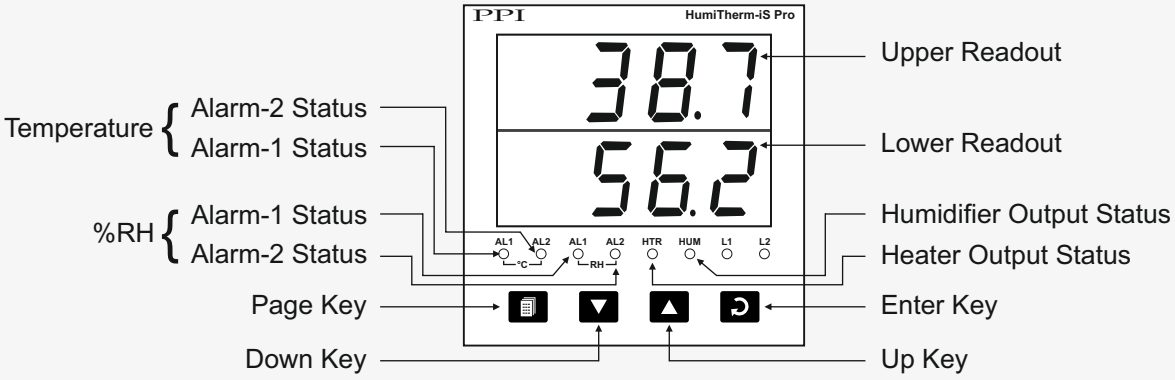
Parameters	Settings (Default Value)
Select Channel SEL	°C Temp rh Humidity (Default : Temp)
Retransmission Output Type rEt.o	0-20 0 - 20mA 4-20 4 - 20mA 0-5 0 - 5 V 0-10 0 - 10 V (Default : 4 - 20mA)

Parameters	Settings (Default Value)
Retransmission Low rEt.L	Input Type Minimum Range to Input Type Maximum Range (Default : 0.0)
Retransmission High rEt.H	Input Type Minimum Range to Input Type Maximum Range (Default : 100.0)

TABLE- 1

Option	Range (Min. to Max.)	Resolution
rtd 3-wire, RTD Pt100	-199.9 to +600.0°C	0.1 °C
0-20 0 to 20mA DC current	-199.9 to 999.9 units	0.1 units
4-20 4 to 20mA DC current		
rES.1 rES.2 Reserved (Default : 0 to 20mV)		
1.25 0 to 1.25V DC voltage		
5.0 0 to 5.0V DC voltage		
10.0 0 to 10.0V DC voltage		
1-5 1 to 5.0V DC voltage		

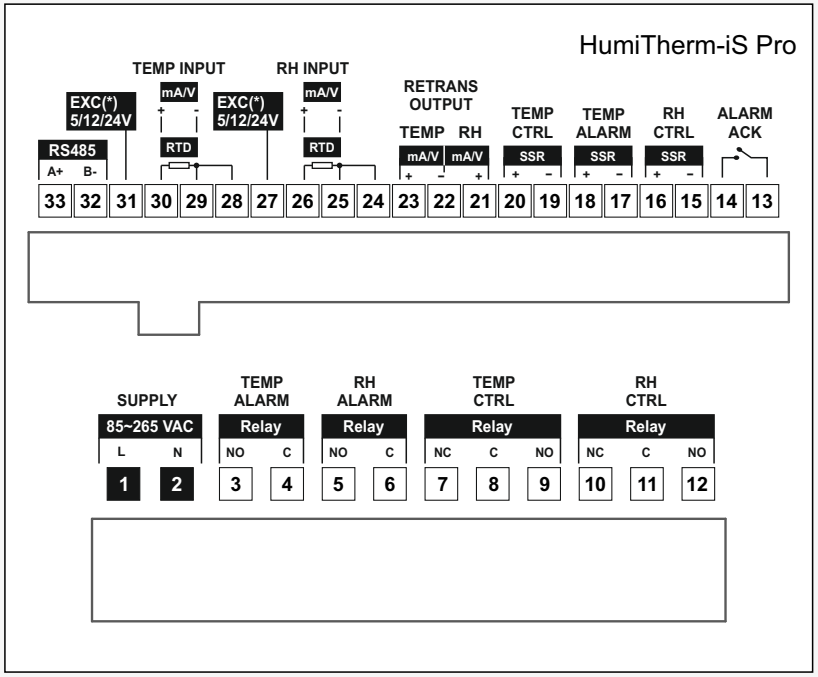
FRONT PANEL LAYOUT



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.

ELECTRICAL CONNECTIONS



PV Error Indications for Dry Bulb Temperature

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

PV Error Indications for Relative Humidity (RH)

Message	Error Type	Cause
Or	Over-range	Wet Bulb Temperature above Max. Range
Ur	Under-range	Wet Bulb Temperature below Min. Range
OPEn	Sensor Open	Wet Bulb Sensor (RTD) Broken / Open
rhEr	RH Error	This error is indicated in the following cases : • Dry Bulb Temperature above 102.0°C. • Dry Bulb Temperature below -20.0°C. • Wet Bulb depression beyond: 50.0°C for Dry Bulb Temperature above 0°C 5.6°C for Dry Bulb Temperature below 0°C
1000	Display Freezes To 100.0%	This error is indicated in the following cases : • Wet-Bulb Temperature exceeds Dry-Bulb Temperature. • Computed % RH above 100.0%.
00	Display Freezes To 0.0%	Computed % RH is below 0.0%.