

## **REFRIGERATION TECHNOLOGY, INC.**

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### **MODBUS PROGRAM FUNCTIONS: MODEL SSDP-HH**

The dual probe humidistat works like (2) independent humidistats in one enclosure. You are limited to single stage output per probe. You can set either probe for increasing or decreasing relative humidity.

We will call each function “A” or “B.” When you look at the display, it will change from A to B every 4 seconds. When you see a decimal point on the far right of the humidity readout, you are looking at the B probe. No decimal is the A probe.

There is a similar decimal point to the right of the set point display. You can lock the display in A or B for constant monitoring by pushing the O button. If you see a single decimal point on the set point, you are locked on the A probe. If you see 2 decimals, you are locked on the B probe.

To set the humidistat, wait until the display is on the A function and push the O button. This will lock A on and allow you to set A. When the display is in B, push the O button to lock B and set any B function. After setting the program functions and pressing “P” to return to normal operation, push the O button to return to the alternating display.

If you have an alarm and the beeper function is activated, the beeper will beep during both humidity displays. The alarm light will be on only for the system in alarm. If both systems are in alarm, you must push the reset (lockout) button twice, once while in A and once while in B.

## MODBUS PROGRAM FUNCTIONS

1. HI ALARM                      Degrees over set-point.
2. LO ALARM                     Degrees below set-point.
3. DLY                            Alarm delay in minutes: 1 to 127, 0 = Disable.
4. CAL                            Enter a permanent off-set to recalibrate plus or minus.
5. SET POINT                    Y = Enable  
   DISABLE                      N = Disable
6. ALARM BEEPER              Y = Enable  
                                      N = Disable
7. R1 DIFF or                    Relay 1: Dead band between on and off for the system.  
   7 R2 DIFF                      Relay 2: Used only for (2) solenoid applicattion.
8. RESOLUTION                This allows the option of displaying humidity in whole numbers or tenths.
9. AAR                            Y=Enable  
                                      N= Disable
10. UNIT I.D.                    Used for computer interface only.
11. BAUD RATE                 Set at 5

## TO PROGRAM

ENTER PROGRAM

PUSH "P" FOR (2) SECONDS:

Step 1 HI ALARM  
Enter

Set to desired  
Press E button

Step 2 LO ALARM  
Enter

Set to desired

Step 3 DLY  
Enter

Set to desired

Step 4 CAL  
Enter

Calibrate

Step 5 SETPOINT LOCKOUT  
Enter

Lock out to prevent change from front panel.

Step 6 BEEPER  
Enter

Lock out if desired.

Step 7 R1 OR R2 DIFFERENTIAL  
Enter

Set to desired

Step 8 RESOLUTION - 10<sup>TH</sup>  
Enter

Set if desired

Step 9 AAR

Set if desired

Step 10 UNIT I.D.  
Enter

Enter the humidity system number if on  
computer.

Step 11 BAUD RATE

Set at 5

Press top right button to return to normal operation.

## PROGRAMMING OPTION DETAILS

To program the SUPER STAT you enter the program by holding down the upper right button for (2) seconds. You advance through the steps of the program using the bottom right button. To change a step in the program, use the up/down arrows.

HI ALARM Set for alarm relative humidity above set point or set to zero if not to be used.

LO ALARM Set for alarm relative humidity below set point or set to zero if not to be used.

CAL After the unit is wired and ready to go, test it against a known relative humidity reading. Add a + or – offset to zero out the reading.

RELAY 1 or 2 DIFFERENTIAL This is the on-off differential, i.e.

Set point	=	70
Diff	=	2
Mode	=	Heating
Solenoid on	=	67
Solenoid off	=	70