

REFRIGERATION TECHNOLOGY, INC.

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MODBUS PROGRAM FUNCTIONS: MODEL SSDP-TT

The dual probe thermostat works like (2) independent thermostats in one enclosure. You are limited to single stage output per probe. You can set either probe for heating or cooling.

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 temperature 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 thermostat, 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 temperature 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 above 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 solenoid.
 R2 DIFF Relay 2: Dead band between on and off for the solenoid.
8. RESOLUTION This allows the option of displaying temperatures in whole
 numbers or tenths.
9. AAR Y= Enable
 N= Disable
10. F/C “F” = Fahrenheit, “C” = Centigrade.
11. PROBE RTD Type - 2 Wire, 3 Wire, 4 Wire
12. UNIT NUMBER Enter unit number to communicate with computer.
13. 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 TH Enter	Set if desired
Step 9 AAR	Automatic Alarm Reset
Step 10 F/C Enter	Set
Step 11 RTD TYPE	2 = 2 Wire 3 = 3 Wire 4 = 4 Wire
Step 12 UNIT I.D. Enter	Enter the tank no. if on a computer system.
Step 13 BAUD RATE Enter	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 temperature above set point or set out of range if not to be used.

LO ALARM Set for alarm temperature below set point or set out of range if not to be used.

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

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

Set point	=	55
Diff	=	2
Mode	=	Cooling
Solenoid on	=	58
Solenoid off	=	55