

# TEST PROCEDURE



Date: 9/15/87  
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Date Revised: 4/20/90

Model No.:506-001A  
Customer: Farm Fans

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## Equipment Required

Switchable 115VAC Power Source  
Two 15W lamp loads  
72-1001-1 Analog Temperature Indicator, 1ma FS w/75 to 300°F scale (M1)  
DCMA meter and 0 to 25ma (M2)  
Sensor Simulator Resistances of 1011ohms, 1247ohms, 1588ohms  
75 to 250°F Dial Plate

## Procedure

1. Connect controller as shown in wiring diagram and apply power.
2. Set Sensor simulator to 1247ohms (175°F) and rotate the S.P. Pot to 175°F on the dial.
3. Adjust S.P.Offset trimmer (P4) until Control Output just turns OFF.
4. Rotate the S.P. Pot back and forth around setpoint and observe that the Control Output turns ON and OFF with approx. 1°F Hysteresis.
5. Rotate S.P. Pot and observe that the Alarm Output turns ON and OFF between 155 and 160°F.
6. Set the S.P. Pot to 155°F and adjust Idle Adj. trimmer (P5) for a 5.75ma reading on meter M2.
7. Rotate the S.P. Pot to 195°F and observe that meter M2 reads between 19 and 21.5ma.
8. Set the Sensor simulator to 1011ohms (75°F) and check to see that the Control Output turns ON and OFF with approx. 1°F Hysteresis between 70 and 80 on the dial.
10. Depress the meter pushbutton switch on the controller and adjust the Meter Offset trimmer (P3) for a .05ma reading or until the meter just begins to move off zero.
11. Set the Sensor simulator to 1588ohms (300°F) and while depressing the meter pushbutton switch, adjust the meter F.S. Adj. trimmer for a reading of 1ma on meter M1.
12. Disconnect analog meter and connect digital meter. Move mini jumper (J-9) to closed position. Set sensor simulator to 175°F (1247 ohms) and calibrate meter offset to obtain a reading of 175°F. Check meter at 75 & 250°F.

(NOTE: LEAVE METER IN CLOSED POSITION FOR DIGITAL METER USE AS PER CUSTOMER REQUEST 3/6/96)

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## TEST WIRING DIAGRAM

