ELECTRONIC FLAME SUPERVISION FLAME SIGNAL TEST METER

MODEL: FSTM

Revision: 0

BULLETIN 7168

DESCRIPTION

The model 7168 Flame Signal Test Meter is an accessory for the Pyronics Sens-A-Flame II combustion safegaurd, it measures the magnitude of a flame current signal generated by a flame detector (either a flame rod or a Pyronics Ultra Violet detector) powered by a Sens-A-Flame II series combustion safegaurd. The Flame Signal Test Meter enables flame signal current measurments to be made without interruption to system operation. No wires need be connected to make measurements. The combustion safeguard system remains undisturbed while measurements are taken.

The Flame Signal Test Meter is small enough to be hand held and is battery powered. Once the unit is switched on there are no further meter contriols to operate. The display reads flame current strength directly in microamperes. Measurements can be made both easily, rapidly, and in locations where power is not accessable.

The Flame Signal Test Meter is an excellent tool for combustion safeguard system start-up, servicing, and maintenence. Pilot burners and main burners can be adjusted for maximum flame current signals over the pilot and main burner operating ranges. Flame current signals can be monitored over a period of time to warn of both signal deterioration and of the need for system maintenence.

SPECIFICATIONS

Flame Current Range : 0-50 microamperes

Calibration : Factory Set

Ambient Temperature : -10 degrees to 125 degrees F (-23 degrees to 52 degrees C)

Power Requirement : (2) 9 volt transistor batteries

Operating Current : 3.3 milliamperes per battery

Overall Size : 6.18” Wide x 3.75” High x 2.62” Deep

FEATURES

- Battery powered
- Small size
- Measures flame current with out system interruption
- Large 3 1/2” meter
- Compatible with any Pyronics combustion safeguard
- Battery test
- Easy to use

CAUTION: Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.

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OPERATING INSTRUCTIONS

1. Insert the red test lead banana jack into the ”INPUT” terminal. Insert the black test lead banana jack into the “COM” terminal

2. Turn the “OFF/ON” switch to ON to power the Flame Signal Test Meter.

3. Flip up the “BAT. TEST” switch and verify the small lamp illuminates. This indicates that the two batteries are in good condition.

4. For measuring a flame current on a single burner Sens-A-Flame II (models 7131, 7231/7251) : Insert the black probe into the center pin of the 7 pin white plastic connector and place the red probe on terminal 10. Refer to Figure 1.

5. For measuring a flame current on a multiple burner Sens-A-Flame II (models 7112, 7232/7252) : Insert the black probe into the center pin of the 7 pin white plastic connector on the adder chassis and place the red probe on the terminal of the burner to be monitored. Refer to Figure 2.

BATTERY REPLACEMENT

1. Turn the “OFF/ON” switch to OFF position.

2. Remove the 4 allen head screws on the faceplate.

3. Pull out the face plate from the box.

4. Remove the two battery clips.

5. Loosen the battery retaining bar and remove the old batteries.

6. Snap the battery clips on the new batteries.

7. Place the new batteries under the battery retaining bar and tighten the bar down on the batteries.

8. Insert the faceplate into the box and secure it with the 4 allen head screws.

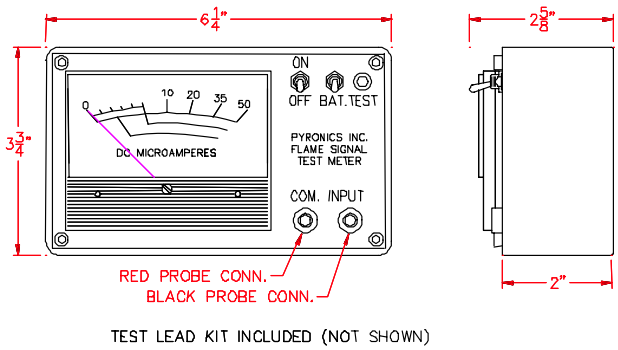

FIGURE 2

FIGURE 1