

**FLUKE®**

**Biomedical**

# **Nuclear Associates 05-434**

**Primalarm™ Remote Alarm**

## **Operators Manual**

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## **Section 1**

# **Introduction**

### **1.1 Introduction**

Primalarm 05-434 is a remote accessory which can be interfaced to a Primalert™ 10, 20, 35 or 50. The Primalarm is a remote alarm device, which, when connected to a Primalert, provides the same reset capability and audible/visual alarms as its measuring device.



*Figure 1-1      Primalarm 05-434*

## 1.2 Specifications

<b>Visual Alarm</b>	Two bright red incandescent lamps which flash at the same rate and at the same time as the Primalert to which it is connected.
<b>Audible Alarm</b>	400 Hz tone alternating and actuated as on Primalert.
<b>Alarm Switch</b>	Permits the operator to disable the Audible Alarm.
<b>Power Indicator</b>	Green LED indicates power is being supplied to the Primalarm.
<b>Fail-Safe Features</b> cycle):	<p>Three items will cause the Primalarm to alarm continuously (no on-off cycle):</p> <ul style="list-style-type: none"><li>• The Primalert to which it is interfaced is not connected to primary power.</li><li>• The cable connecting the Primalert to the Primalarm is broken or disconnected.</li><li>• The internal power or power converter on the PRIMALERT™ is defective.</li></ul>
<b>Power</b>	<p>Part 14-314 (United States, Canada) Input 117 VAC, 60 Hz, 12 W Output 12 VDC, 500 mA</p> <p>Part 14-400 (Europe) Input 230 VAC, 50 Hz, Output 12 VDC, 500 mA</p> <p>Part 14-417 (United Kingdom) Input 230 VAC, 50 Hz, 13.8 W Output 12 VDC, 580 mA</p> <p>Part 14-417, Part 14-416 (Australia)</p>
<b>Dimensions</b> (H x W x D)	<p>5.9 in. x 3 4 in x 1.3 in. (15 cm x 8.6 cm x 3.3 cm) Unit clips to wall with convenient mounting clip</p>
<b>Operating Conditions</b>	<p>10° C to 40° C (50° F to 104° F) Maximum of 90% relative humidity non-condensing</p>
<b>Accessories Supplied</b> Primalert.	<ul style="list-style-type: none"><li>• 100 ft. (304.8 mm) cable with plugs on both ends to connect unit to Primalert.</li><li>• Wall mounting bracket P/N 102007</li><li>• Appropriate 115V (230) CE approved converter</li></ul>

## **Section 2**

# **Installation**

### **2.1 Mounting**

The mounting bracket (102007) can be attached to any convenient vertical mounting surface. Before mounting the bracket to the wall, ensure that the six-foot converter power cord will reach the nearest power outlet.

The wall-mounting bracket comes supplied with double-sided foam tape already attached. Peel off the protective paper covering and apply firmly to the mounting surface.

<b>CAUTION</b>
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Once the unit is in place, the bracket cannot be moved or removed without destroying the tape. Make sure of your installation site before applying the tape or mounting the unit. Mounting holes are also provided if you wish to mount the unit using screws.

### **2.2 Power**

Connect the 100-foot cable to the Primalarm and the Primalert using the alarm jacks (the small jack located on the bottom of both units). The plug on the end of the converter power cord (six feet long) should be inserted into the power jack (the larger jack located on the bottom of the unit), then the converter should be plugged into a wall outlet.

### **2.3 Optional Power**

In case operation of the Primalert on a source of 12 to 16 VDC power, such as a storage battery, is desired, the converter plug supplies this voltage. The plug is a Switchcraft No. 50760, or equivalent, with the sleeve negative and the tip positive. The current drain at background radiation levels is about 10 mA, and about 250 mA at full alarm levels.

## 2.4 Grounding

If it is desired to ground the instrument with a separate ground wire, as required under certain codes, Figure 2-1 shows how to accomplish this. Remove the back cover by loosening the single screw in the center of the cover. Note the position of the ground terminal in Figure 2-1. Attach the wire by running it up through the small hole between the jacks. Wire used for this purpose should be at least a #16 gauge.

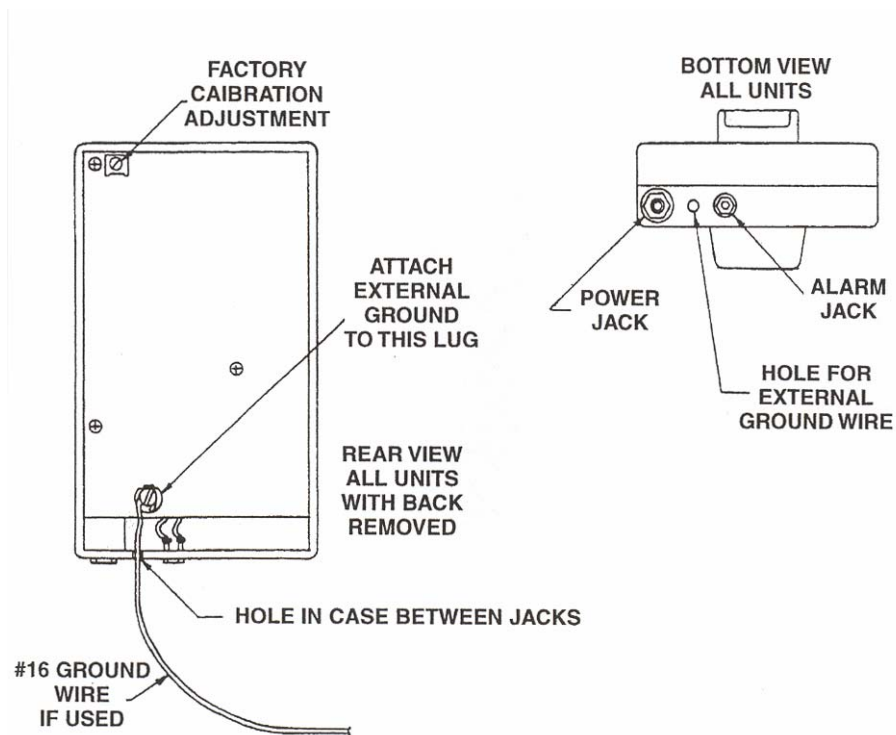


Figure 2-1 Installation of Ground Wire



## Section 3 Operation

### 3.1 Operation

1. Connect the Primalarm to the Primalert as described in Section 2, Installation.
2. Make sure the Primalert is operating properly.
3. Plug in the converter power cord as described in Section 2, Installation. The green POWER INDICATOR should light.
4. If the Primalarm audible/visual alarms should alarm continuously, there is a break in the cable to the Primalert, or the Primalert has no input or internal power.
5. There is a panel switch on the front of the Primalarm which will disable the audible alarm. It has no effect on the visual alarm.
6. The alarms of the Primalarm will actuate simultaneously with those on the Primalert with which it is connected.

### 3.2 Routine Cleaning

CAUTION
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Do not immerse the Model 05-434 Primalarm. The unit is not waterproof. Liquid could damage the circuits. The unit should be kept clean and free from dirt and contamination. The unit may be cleaned by wiping with a damp cloth using any commercially available cleaning or decontaminating agent.

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