

## LMI MODEL 49-12

March 1992

The M49-12 is the latest addition to our line of hand and shoe monitors. This newly revised monitor features six gas proportional detectors for both alpha and beta radiation. A status panel displays the location and type of contamination. A 16 x 40 character, backlit display and a keypad are provided to view or change any system parameter such as count time, alarms, high voltage (HV), automatic alarm parameters, etc. Trouble indication for failure detection includes HV failure, low gas output failure, low count failure, and high background failure.

The four hand detectors have an active area of 310 cm<sup>2</sup> which are protected with a 79% open screen. The two foot probes have an active area of 410 cm<sup>2</sup> each and are protected with a 58% open screen. Efficiencies for the hand detector are 15% for Th-230 (alpha) and 23% for Sr-90 (beta). Efficiencies for the foot detector are 5% for Th-230 (alpha) and 11% for Sr-90 (beta). Listed below are other important specifications for the LMI M49-12:

**POWER:** 115 VAC, 50-60 Hz.

**COUNT TIME:** Adjustable from 1- 255 seconds.

**ALARM CONDITIONS:** Both audio and visual red lamp illumination plus LED readout.

Audio alarm is 75 dB at 2 feet. Green light illuminates for Condition Ready.

**ALARM CALCULATION:** Each channel's alarm setpoint may be manually set or automatically calculated. Automatic calculation modes include maximum sensitivity and minimum count time.

**DISPLAY:** The status panel is covered by PVC film for easy decontamination.

**CALIBRATION CONTROLS:** 6 adjustable potentiometers (1 for each channel). Keypad-adjustable HV control.

**SYSTEM SECURITY:** 4-digit security code to protect system setups.

**HAND DETECTORS:** Fit against hands for optimum detectability.

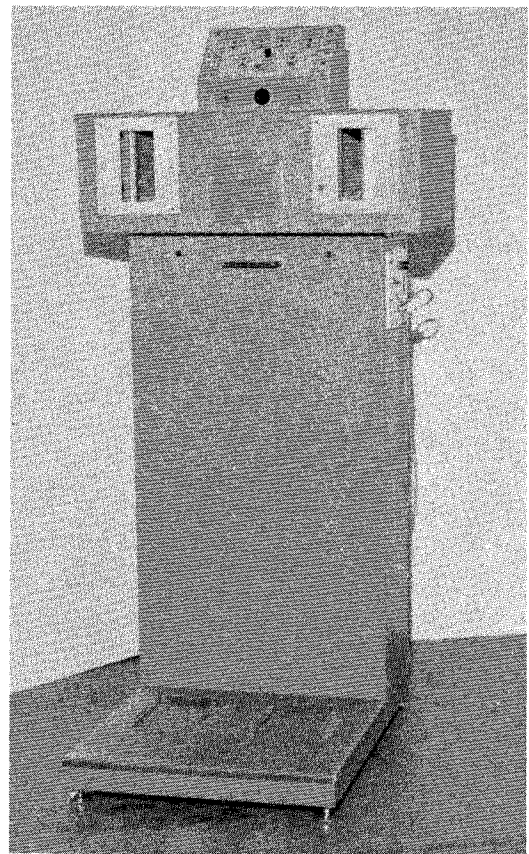
**GAS SYSTEM:** Dual gas bottle inputs with automatic input switchover. Detector gas input and output is monitored by mass-flow sensors.

**AUTOMATIC PEAKING ROUTINE:** Software package which provides a quick method to peak all six detectors and determine the optimum HV for each detector.

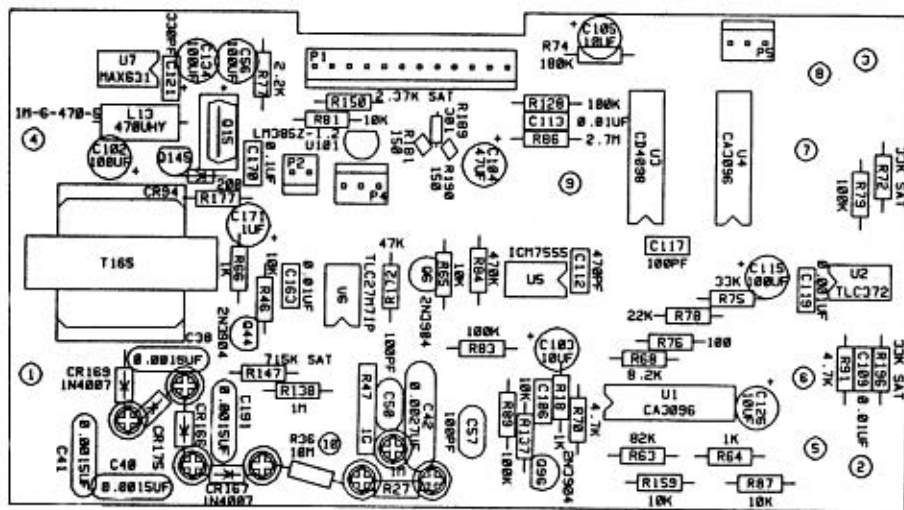
**SIZE:** 32"L x 28"W x 58"H.

**WEIGHT:** 140 pounds.

**OPTIONAL:** An additional frisker detector is available.



## SURVEY METER DESIGN CHANGE *March 1992*



A plug-in style circuit board is being incorporated into most of the recently manufactured portable survey meters. The plug-in circuit board makes both the assembly and repair of the instrument much easier.

When a problem arises with an instrument having the new plug-in board, the troubled circuit board can be unplugged and replaced with a good one.

This also makes it easier to determine whether the problem is in the board or in the chassis, therefore making it more cost effective. Please do not be alarmed if you did not receive the new style survey meter on your last order. Not all models have been designed with the plug-in circuit board. At this printing the following models will incorporate the plug-in type board: LMI models 2, 3, 4, 12S, 14C, and the 19A. Production runs of some of these instruments have not been completed.

We will continue to upgrade our existing models and we will also design new instruments

that are dependable and durable instrumentation, all of course at our usual competitive prices.

**LUDLUM MEASUREMENTS, INC.**

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