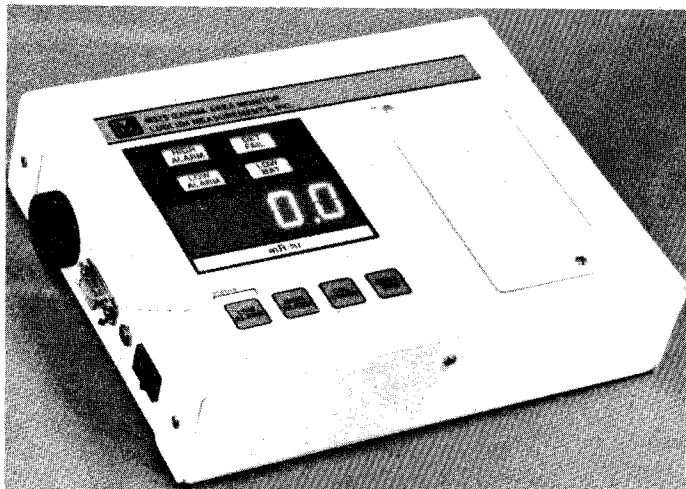


New LMI Instrument: AREA MONITOR *March 1993*



The M375 Digital Wall-Mount Area Monitor is designed for both visibility and ease of use. Featuring a wall-mount chassis, the M375 has a four-digit LED display that is readable from thirty feet away. Four labeled backlit indicators warn of low radiation alarm (yellow), high radiation alarm (red), instrument failure (red), and low battery (yellow). A green status light is a positive indication of instrument operation.

Calibration parameters are protected under a calibration cover. Calibration is easily accomplished by using the push-buttons to increase and decrease the calibration constant and dead time correction parameters. Parameters are stored in non-volatile memory and are retained even with power disconnected. A five-decade logarithmic analog output is provided. The battery backup provides up to 36 hours of additional use after the primary power is removed. The M375 can be furnished with an external detector or an internal detector.

M375 SPECIFICATIONS

Detector: Internal GM, or external GM, scintillator, or neutron detectors.

Display: 4-digit 0.8" LED.

Status: Status OK (green): Instrument functioning properly.

Low Alarm (yellow): Radiation level exceeds low alarmpoint.

Low Battery (yellow): Imminent loss of power.

High Alarm (red): Radiation level exceeds high alarmpoint.

Detector Fail (red): Detector overload, no counts from detector, or internal instrument failure.

Range: Selectable from 0.1 mR/hr - 999.9 mR/hr or from 1 mR/hr - 9999 mR/hr.

Power: Will accept 7.5-30 VDC. M375 is supplied with a wall-mount 12 VDC supply.

Battery: 3.0 amp-hr gell-cell battery supplies 36 hours of non-alarm use.

Audio: Sonalert features slow beep for low alarm, fast beep for high alarm, and continuous tone for detector failure.

Output: Has 5-decade logarithmic output, 0-5 VDC open collector outputs for high alarm and detector failure.

Calibration: Change parameters by pressing up or down arrow push-buttons. Parameters saved in non-volatile memory.

Dipswitch Options: Latching or non-latching high alarm, range (decimal point or not), and single beep mode (beeps once as radiation level exceeds alarmpoint) or continuous audio output.

Connector: 9-pin D connector provides:

- 1) alternate power in
- 2) log output
- 3) 0-5 VDC open collector outputs

Size: 9.5" (24.1 cm) wide x 7.5" (19 cm) tall x 2.5" (6.4 cm) deep.

Weight: 4.5 lbs (2.025 kg)

Configurations:

Model number	Part number	Price
M375 (with external detector)	48-2230	\$ 775.00
M375/2 (with internal LND 7121 GM detector)	48-2410	\$ 795.00
M375/4 (with internal LND 714 GM detector)	48-2411	\$ 795.00

WHAT'S THE GROUNDING STRIP FOR ANYWAY? March 1993

Scenario: Your Ludlum Model 329 series Laundry Monitor that has been functioning properly and then one day the count display fails to update or is purely erratic. The operator also complains of static discharge problems when the conveyor belt is touched.

Within the past couple of month's these problems have been encountered by some of our Laundry Monitor customers. Most of the time the problem described is with the ground connection between the conveyor belt and chassis ground. If the ground connection to the belt is defective or missing, the metal belt friction against the polyethylene table can develop an extreme static charge. As this charge continues to build and finally discharges to something or someone, a static discharge is produced. This excessive discharge can damage the sensitive microprocessor control electronics within the electronics console. For the Model 329-1 series Monitor, this grounding strip consists of a phosphor bronze strip approx. 3/4 inch wide by 3 inches long which rides against the upper conveyor belt. This strip must be replaced periodically to ensure a sufficient ground connection because of belt wear upon the strip. The bottom belt ground is actuated by the contact of the conveyor belt to the detector protective cover. However, some of the original protective hex covers have been replaced with a brass cover which has a layer of UHMW polyethylene on them. To ground the conveyor belt on these units, a split blank sprocket (LMI # 7323-974) should be mounted on the drive shaft which will provide chassis ground through the conveyor drive motor. This sprocket can be mounted without removal of the conveyor belt.

The Model 329-32 upper conveyor belt utilizes a stainless steel blank sprocket to provide the ground connection between the belt and the drive shaft. A brass strip is then connected from the end of the drive shaft to the chassis to complete the ground connection. The bottom belt also uses a stainless steel blank sprocket to make the connection from the belt to the drive shaft but the ground connection is completed through the conveyor drive motor via the chain.

If a static problem is occurring, inspect the ground connections described above. Use an ohmmeter to verify continuity between the conveyor belt and chassis ground. If you have any questions about this or other LMI products, please call the LMI Repair Dept. at (800)622-0828.

USED AND OUTDATED EQUIPMENT REQUESTED *March 1993*

Our friends at TSTC-Waco have asked us to relay their plea for any outdated or used radiation detection equipment which you have no need for. Texas State Technical College's Nuclear Technology Department teaches an eighteen month entry-level health physics program. Because of the increase in enrollment at the Waco campus, the department is in need of equipment to be used in their classes.

Graduates of this course have an Associates Degree of Applied Science in Nuclear Technology and are referred to as "entry-level health physics technicians". If you can help in any way or have questions, please contact either Linda Morris, Georgia Martini, or Gary Nordwig at (817)868-4877.

LMI REPAIR DEPARTMENT TIPS:

We often receive instruments sent back to us for repair or calibration that have no instructions as to what needs to be done to these instruments. This usually results in a delay to you in receiving the instrument for your operation. To help shorten the turn-around-time for your repair or calibration we ask that you enclose some important information.

We now enclose a Returned Goods Form with all new instruments that we sell. However, sometimes these forms may be lost or misplaced. Per your request, we will be glad to fax or mail you a copy or copies of this form which is a questionnaire as to the reason for product return, name of the end user, phone number for price quote or billing info, symptoms of instrument sent in for repair, etc.

Please enclose this information on any equipment that is sent back to us for repair or calibration.

Another problem we often experience with cal and repair equipment returned to us is the way the instruments are packaged. Most shipping companies recommend that if the box or carton is properly packed, it should withstand a drop or fall three feet from the floor. It is very important that the equipment be packaged properly to keep it from being damaged in shipment. Hopefully, with your help, our returned goods system will improve turn-around-time on your equipment.

LUDLUM MEASUREMENTS, INC.

P.O. Box 810
Sweetwater, TX 79556

Forwarding & Address
Correction Requested

BULK RATE U.S. POSTAGE PAID Sweetwater, TX Permit No. 170
