

AC-DC DIGITAL RADIATION MONITOR

Model Series - LAM-10D & LAM-10 DL

FEATURES:

- ❖ 6 DIGIT READ-OUT
- ❖ GAMMA REJECTION
- ❖ VERSATILE APPLICATION
- ❖ WALL MOUNT OR PORTABLE
- ❖ AC OR BATTERY -RECHARABLE
- ❖ 5 DECADES
- ❖ RECORDER OUTPUT
- ❖ SETTABLE ALARM -BEEPER FLASHER
- ❖ LARGE DISPLAY READ-OUT (LAM-10-DL)
- ❖ DATA DOWNLOAD VIA RS-232
- ❖ **OPTIONAL** - USB



APPLICATION:

- The LAM-10D series instruments utilize all the standard Technical Associates P and P-S series probes, Geiger and scintillation probes.
- These probes provide versatility and dependability at low cost.
- These instruments are popular in use as lab monitors, exit monitors or as area monitors.
- They are also suitable for survey or contamination work.

DESCRIPTION:

- The LAM rate-meters are rugged and easy to use for laboratory or field application.
- Operated by AC mains or by rechargeable batteries.
- Batteries are automatically put in trickle charge mode when LAM is plugged into the line.
- Use with any TA or compatible probe



**TECHNICAL ASSOCIATES
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Divisions of



US NUCLEAR CORP

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SPECIFICATIONS:

RANGES: Choose any probe below or any TA or compatible probe. Some choices include:

| PROBE | DESCRIPTION | RANGE | | | | | | UNITS |
|--------------|------------------------------------------|-------|-----|----|-----|-------|--------|----------------------|
| ALL PROBES | ALL PROBES | 0.1 | 1 | 10 | 100 | 1,000 | 10,000 | cps |
| GM | Thin window Alpha-Beta, Gamma, X-ray, | | | | | | | |
| P-15 | 2" dia Pancake | | .02 | .2 | 2 | 20 | 200 | mR/h |
| P-6LB | Low background | | .1 | 1 | 10 | 100 | 1,000 | mR/h |
| | | | | | | | | |
| SCINTILLATOR | GAMMA SCINTILLATION | | | | | | | |
| PGS-3T | Low Energy Gamma | | .01 | .1 | 1 | 10 | 10 | mR/h |
| PGS-3I | Low/mid Energy Gamma | | .03 | .3 | 3 | 30 | 30 | mR/h |
| BGS-2505 | Low Energy BGO probe | | .01 | .1 | 1 | 10 | 10 | mR/h |
| PNS-20 | Neutron Scintillator | 0.1 | 1 | 10 | 100 | 1000 | 10,000 | n/cm ² /s |

OPTIONS:

- Read-out units and range per customer requirements: mR/h, Sv/h, microCuries/ml, etc.
- Computer interface; RS232, ethernet, etc.
- Complete data logging and acquisition systems

SPECIFICATIONS:

| | |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital Display: | Length = 6 digit rate, 8 digit total dose Other meter scale markings are available. |
| Engineering Units: | User can input correct conversion factor and change to any units. |
| Controls: | Front Panel: On-Off, Alarm-mute, Rate, Integrate, Reset. |
| Recessed or Internal: | Discriminator level, high voltage, alarm set. |
| Other adjustable settings: | See calibration. |
| Detectors: | Any GM (P-13, P-15, P-6LB, etc.) or alpha, beta, gamma or neutron scintillator (PAS-8, PAS-9, PGS-3, PNS-19, etc.). |
| Probe Holder: | Probe Holder is provided for probe purchased. |
| Input Sensitivity: | Adjustable from less than 1 millivolt to 100 millivolt |
| Anti-Saturation & Dead-time Corrections: | Differentiation circuit provides highly effective compensation for coincidence loss. This allows all five decades to accurately read with scintillation detectors. |
| Calibration: | Digital input of calibration factor gives high precision adjustment. |



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SPECIFICATIONS Continued:

| | |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Alarm: | 2000 Hz audio tone with audio "mute" switch + RED LIGHT, high current relay. 0-100% of full scale. |
| Serial Output: | Two way RS-232 standard, Ethernet optional. |
| Pulse Output: | Internal 1 volt positive. Other outputs and interfaces are optional. |
| Batteries: | 5 amp-Hour Battery Pack with built-in charger. |
| Battery Life: | 100 Hours in Non Alarm Status 18 Hours in Alarm Status |
| Power: | 105-125 volts, 50-60 Hz (220 V optional) |
| Construction: | NEMA-4X polycarbonate gasketed case: rugged and splash-proof. |
| Weight: | 3 lbs. (1.4kg) including batteries and hardware, excluding probe. |
| Dimensions: | LAM-10D: 10" W x 7" H x 4" D LAM-10DL: 10" W x 7" H x 6" D excluding handle, probe holder, feet, knobs. |



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