



LAM-10D Ratemeter

## Features

- LCD Display 6 Digit Rate-8 Digit Integrate
- 5 Decades
- Gamma Rejection
- Versatile Application
- Wall Mount or Portable
- AC Power
- Recharable Batteries
- Settable Alarm-Beeper Flasher
- Large Display Read-Out (**LAM-10-DL**)
- Data Download via RS-232
- Internal Detector: **LAM-10D-I**)
- Ion Chamber Electronics (**LAM-10D-IC**)
- Computer Interface: RS232 Standard
- **Optional:** USB
- **IP65**

# AC-DC Digital Ratemeter

**Model Series: LAM-10D**

**LAM-10D, LAM-10 DL,  
LAM-10D-I, LAM-10D-IC**

## Applications

- 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.
- Model LAM-10D-IC is the electronics suitable for use with Ion Chambers.

## Description


- The LAM-10 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-10D is plugged into AC.
- Use with any TA or compatible probe.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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 USNUCLEARCORP  
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# AC-DC Digital Radiation Monitor

Model Series: LAM-10D, LAM-10 DL, LAM-10D-I, and LAM-10D-IC

## Specifications

Ranges: Choose any probe below or any TA or compatible probe including silicone solid state. Some choices include:

PROBE	DESCRIPTION	RANGE						UNITS
<b>ALL PROBES</b>	<b>USE WITH LAM-10D ELECTRONICS</b>	0.1	1	10	100	1,000	10,000	mR/h
<b>GM</b>	Thin window Alpha-Beta, Gamma, X-Ray,							
<b>P-13</b>	Side-viewing, energy compensated GM Probe with a 30 mg/cm wall	0.1				1,000		mR/h
<b>P-15</b>	2" dia Pancake		.02	.2	2	20	200	mR/h
<b>P-6LB</b>	Low background		.01	1	10	100	1,000	mR/h
<b>T-1216</b>	Energy Compensated Gamma Internal Component			0.1	1	10	100	mR/h
<b>SCINTILLATOR</b>	<b>USE WITH LAM-10D ELECTRONICS</b>							
<b>PGS-3T</b>	Low Energy Gamma			.01	.01	1	10	mR/h
<b>PGS-3L</b>	Low/Mid Energy Gamma			.03	.03	3	30	mR/h
<b>ION CHAMBER</b>	<b>USE WITH LAM-10D-IC ELECTRONICS</b>							
<b>IC-1</b>	Thin Window Beta / Gamma	0.1	1	10	100	1000	10,000	mR/h
<b>IC-2</b>	Solid Wall Gamma	0.1	1	10	100	1000	10,000	µR/h

## Options

- Read-out units and range per customer requirements: mR/h, Sv/h, microCuries/ml, etc.
- Computer interface; RS232 standard. **Optional:** USB, RS485, ethernet, etc.
- Complete data logging and acquisition systems

## Specifications

### Digital Display:

Length = 6 digit rate, 8 digit Integrat

Other meter scale markings are available.

### Controls:

Front Panel: On-Off, Alarm-Mute, Rate, Integrate, Reset.

### User Settable Alarm:

2000 Hz audio tone with audio "mute" switch + **Red Light**, high current relay.

### Recessed or Internal:

Discriminator level, high voltage, alarm set.

### Electronics, LAM-10D:

Preamps: Linear pulse amplifier



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# AC-DC Digital Radiation Monitor

Model Series: LAM-10D, LAM-10 DL, LAM-10D-I, and LAM-10D-IC

## Specifications *cont.*

Accuracy:	±15% at Cs-137 Gamma
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.).
Electronics LAM-10D-I: Detectors:	Internal Detector, Energy Compensated T-1216 GM Gamma
Electronics LAM-10D-IC: Detectors:	High gain DC electrometer IC-1: Thin window Ion Chamber IC-2: Solid Wall Ion Chamber
Probe Holder:	Probe Holder is provided for probe purchased.
Input Sensitivity:	Adjustable from less than 1 millivolt to 100 millivolt
Anti-Saturation and Dead-Time Corrections:	Differentiation circuit provides highly effective compensation for coincidence loss. This allows all five decades to accurately read with scintillation detectors.
Calibration:	User Settable calibration factor gives high precision adjustment.
Computer Interface:	RS-232 standard, <b>Optional:</b> USB
Power:	115-125 volts, 50-60 Hz (220-240 V optional)
Battery Back-Up:	Lithium Ion Battery Pack with built-in charger.
Battery Life:	100 Hours in Non-Alarm Status 18 Hours in Alarm Status
Environmental:	50 ° F - 140 ° F (10° C to 60° C), RH: 50% - 95%
Mounting:	Wall mount or bench top for electronics and detector
Construction:	Rugged, splash-proof case, with handle.
Weight:	3 lbs. (1.4kg) including batteries and hardware, excluding probe.
Dimensions:	<b>LAM-10D:</b> 10" W x 7" H x 4" D <b>LAM-10D-I:</b> 10" W x 7" H x 4" D <b>LAM-10DL:</b> 10" W x 7" H x 6" D <b>LAM-10D-IC:</b> 10" W x 7" H x 4" D excluding handle, probe holder, feet, knobs.
Cables:	2 meters or user specified up to
Optional:	Wall bracket USB NEMA-4X polycarbonate gasketed case



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