

AC-DC DIGITAL RATEMETER

Model Series - LAM-10D

LAM-10D ~ LAM-10 DL ~ LAM-10D-I ~ LAM-10D-IC

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**



**LAM-10D
RATEMETER**

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.
- 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

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DIVISION OF



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SPECIFICATIONS:

RANGES: Choose any probe below or any TA or compatible probe including silicone solid state.

Some choices include:

PROBE	DESCRIPTION	RANGE						UNITS
ALL PROBES	USE WITH LAM-10D ELECTRONICS	0.1	1	10	100	1,000	10,000	mR/h
GM	Thin window Alpha-Beta, Gamma, X-ray,							
P-13	Side-viewing, energy compensated GM Probe with a 30 mg/cm wall	0.01				1,000		mR/h
P-15	2" dia Pancake		0.02	.2	2	20	200	mR/h
P-6LB	Low background		0.1	1	10	100	1,000	mR/h
T-1216	Energy Compensated Gamma Internal Component			0.1	1	10	100	mR/h
SCINTILLATOR	USE WITH LAM-10D ELECTRONICS							
PGS-3T	Low Energy Gamma			.01	.1	1	10	mR/h
PGS-3L	Low/mid Energy Gamma			.03	.3	3	30	mR/h
ION CHAMBER	USE WITH LAM-10D-IC ELECTRONICS							
IC-1	Thin Window Beta / Gamma	0.1	1	10	100	1000	10,000	mR/h
IC-2	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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SPECIFICATIONS Continued:

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:	Internal Detector, Energy Compensated
Detectors:	T-1216 GM Gamma
Electronics LAM-10D-IC:	High gain DC electrometer
Detectors:	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 & 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, OPTIONAL: USB
Power:	115-125 volts, 50-60 Hz (220-240 V optional)
Battery Back-Up:	Rechargeable 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:	LAM-10D: 10" W x 7" H x 4" D LAM-10D-I: 10" W x 7" H x 4" D LAM-10DL: 10" W x 7" H x 6" D LAM-10D-IC: 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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