

ION CHAMBER TBM

Model # TBM-IC-MARK V

FEATURES:

- DIGITAL READOUT: 8 digit-rate, 8 digits integrate
- DOSE RATE & TOTAL DOSE READ OUT
- SMALL LIGHTWEIGHT 26 oz.
- TBM PACKAGE
- FLAT RESPONSE - FREE AIR ION CHAMBER
- SEES AXIALLY BELOW 5 KEV GAMMA OR X-RAY
- SEES ALPHA, BETA, GAMMA, X-RAY
- FAST RESPONSE
- WIDE RANGE: 0.1 mR/hr to 9.999 R/hr
- OPTIONAL X-RAY COMPLIANCE SLEEVE



APPLICATION: Whenever a fast, sensitive ion chamber instrument is needed, the **TBM-IC-MARK V** is the latest in a series. The **TBM-IC-MARK V** ion chambers are now smaller and lighter. Based on newest more stable, essentially drift-free electrometer technology.

DESCRIPTION: The **TBM-IC-MARK V** consists of a 2.5" dia x 3.5" long air ion chamber coupled to a stable solid state MOSFET input electrometer with built in A to D converter to read out directly in mR/h or mR. Rate range is 0.1 mR/h to 9.999 R/h in a single range. Dose range is 0.01mR - 99.9R in a single range. 180 mg/cm² graphite lined methacrylate walls accurate "air equivalence." Thin (0.5 mg/cm²) Mylar window allows high sensitivity readings for alpha and for low energy beta such as C¹⁴ in addition to higher energy Betas, Gammas and X-rays.

TA **TECHNICAL ASSOCIATES**

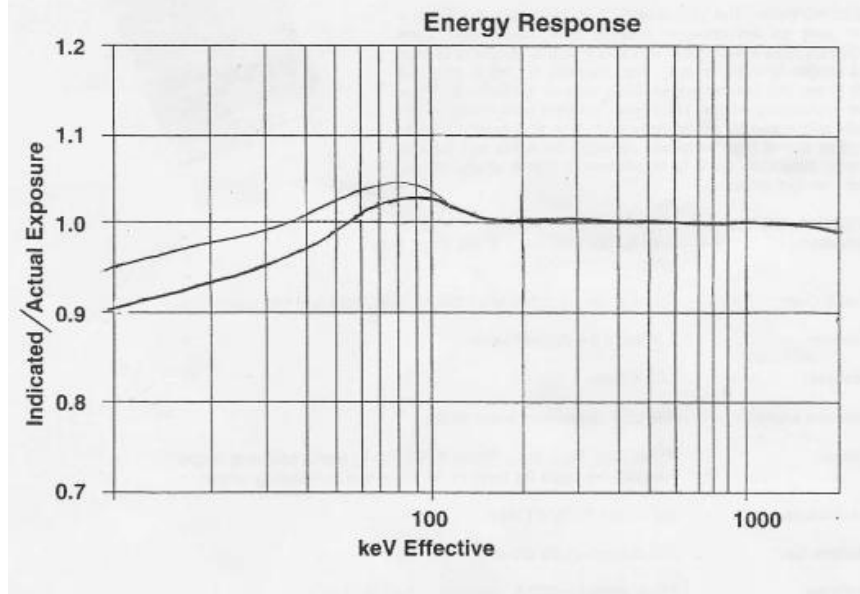
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SPECIFICATIONS:

- Detector:** Free Air ion chamber 2.5" dia x 3.5" long. Internal volume 260 cc
- Wall & Cap:** Methacrylate, graphite lined 180 mg/cm² walls and 540 mg/cm² cap. Optional 1g/cm² walls.
- Window:** 2.0" dia. x 0.5 mg/cm² Mylar.
- Readout:** LCD 8 digits.
- Indicator Lamp:** Green LED 10 pulses/sec per mR/h
Red Over-range Indicator
- Range:**
 - Rate 8 digit 0.1 mR/h to 9.999 R/h in a single range.
 - Integrate 8 digits 0.01 mR to 99.9R in a single range.
- Electrometer:** Solid State MOSFET input.
- Electronics:** A-D converter LCD drivers.
- Batteries:**
 - 10 ea. (Button) NEDA CR-1220 - shelf life 7 years.
 - 6 ea. (AA) NEDA 15A - 1000hr.
- Dimensions:** 5-1/2" x 3-1/2" x 8" including handle.
- Weight:** 26 oz. complete with batteries.
- Options:** Readout in SI units: Sv and Sv/h.
- X-Ray-SLV is optional X-Ray compliance sleeve with 10cm² aperture.**



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PORTABLE ION CHAMBER MODELS AVAILABLE

Model #	Range	Decades	Chamber Volume	Variation From MV
TBM-IC-MARK V	0.1-10,000mR/h	5	300cc	Utilizes essentially drift-free electrometer technology.
TBM-IC-MV-R	0.1-50,000mR/h	5.5	450cc	Rugged aluminum chamber. Up to 50R/h.
TBM-IC-AJI	0.1-10,000mR/h	5	800cc	More stable below 2mR/h.
TBM-IC-LR	0.01-1,000mR/h	5	2,000cc	Sees 10 times lower, 2 litre chamber.
TBM-IC-HLS	0.1-1,000mR/h	7	300cc	Plus second range to 1,000 R/h.
TBM-IC-BW	1uR/h-10R/h	5	300cc	Built in HP ipac, auto ranging, built-in data logger.
TBM-IC-XRAY	0.1-10,000mR/h	5	300cc	Includes 10cm ² aperture sleeve.
CP-MU-D1	0.1-1,000R/h	4	1cc	60 foot cable, up to 10 ⁶ R/h.
CP-MU-D1000	0.1-1,000KR/h	4	1,000cc	60 foot cable, up to 10 ³ R/h
CP-MU-D1/ D1000v	0.1-1,000,000R/h	7	1 & 1,000cc	System includes one electronics and two chambers.
TBM-IC-RN	10 picoCi/l to 1μCi/l	5	300cc	Calibrated to measure radon gas concentration.

Model

TBM-IC-MARK V
 TBM-IC-MV-R
 TBM-IC-AJI
 TBM-IC-LR
 TBM-IC-HLS
 TBM-IC-BW
 TBM-IC-XRAY
 CP-MU-D1
 CP-MU-D1000
 CP-MU-D1/D1000
 TBM-IC-RN

Special Notes

Most popular model. Fits in a brief case. Great stability.
 Rugged for use in power plants, industry, and military.
 Best-in-Field for all medical users.
 Detects background levels in 10sec.
 This very wide range conforms to ANSI N42.33 Homeland Security type 2
 Down to 0.01mR/h
 Complies with FDA regulation 21 CFR1020.40.
 Allows for underwater monitoring to 1 million R/h.
 Water-proof design allows for monitoring in both reactor and spent fuel pools.
 Unplug one detector and plug in the other to switch ranges.
 Can detect Radon to public release levels in less than 10 minutes.

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