

WIDE RANGE PORTABLE ION CHAMBER

Model ~ TBM-IC-BW SERIES

Models ~ TBM-IC-BW-A ~ TBM-IC-BW-AC ~ TBM-IC-BW-B ~ TBM-IC-BW-C

FEATURES:

DETECTOR PORTABLE ION CHAMBER (IC):

- ALPHA, BETA, GAMMA, X-RAY
- ULTRA SENSITIVE – SEES LOW ENERGY X-RAYS <30 KeV
- FLAT RESPONSE - FREE AIR ION CHAMBER
- **NO PRESSURIZATION REQUIRED; FAST RESPONSE**
- WIDE RANGE: 10 μ R/h to 1,000 R/hr to (0.1 uSv/h to 10 Sv/h) (**STANDARD- 300 cc**) - **TBM-IC-BW-A**
- WIDE RANGE: 10 μ R/h to 10,000 R/hr (10kR/h) (0.1 uSv/h to 100 Sv/h) Ion Chamber **300 cc** - **TBM-IC-BW-AC**
 - AC POWER
 - WALL MOUNT OR BENCHTOP – NO HANDLE, WALL BRACKET **OPTIONAL**
- **CHOICE OF LARGER ION CHAMBERS (IC):**
 - 1-LITER - 0.005 mR/h to 500 R/hr to (50 nSv/h to 5 Sv/h) **TBM-IC-BW-B**
 - 2-LITER - LOW SENSITIVITY –
 - 1.0 μ R/h to 100 R/hr to (10 nSv/h h to 1 Sv/h) **TBM-IC-BW-C**
- SEVEN (7) DECADES
- OMNI DIRECTIONAL RESPONSE TO GAMMAS AND LOW ENERGY X-RAYS & SCATTER
- REMOVABLE BETA CAP
 - SEES AXIALLY BELOW 1 KeV GAMMA OR X-RAY, BELOW 100 KeV BETA
 - WITH BETA CAP REMOVAL SEES ALPHA ABOVE 3.5 MeV
- SMALL LIGHTWEIGHT TBM PACKAGE; <2lbs (0.09 kg).

ELECTRONICS:

- DIGITAL SURVEY METER with INTERNAL MICROPROCESSOR
- ENGINEERING UNITS – mR or μ Sv – OTHER OPTIONS AVAILABLE
- POWER – RECHARGEABLE BATTERIES AND CHARGER
- BRIGHT BACKLIT TOUCH SCREEN
- REAL-TIME CLOCK AND DATE
- ALARMS: VISUAL/AUDIO – USER SETTABLE
- DOSE RATE & TOTAL DOSE 5 DIGIT READ OUT
- SELF-CALIBRATING
- USB **OPTIONAL**: RS-232 SERIAL PORT
- **IP63; CE MARK**



IC 300 cc



IC 1 LITER



TBM-IC-BW DISPLAY SCREENS



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TECHNICAL ASSOCIATES

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APPLICATION:

Use whenever a fast, sensitive ion chamber instrument is needed. The TBM-IC is an important Free Air Ion Chamber for use in medical departments including Oncology, Treatment & Diagnostic Areas, Radiology & Imaging, PET Scanners, and Gamma Knife. No pressurization is required.

DESCRIPTION:

Unlike other market brands. Technical Associates thin wall Ion Chambers provide detection axially below 1 KeV Gamma or X-Ray, and below 100 KeV Beta. The thicker chamber walls of other brands can lead to 0 readings (false negative). TA's TBM-IC instruments detect and thus protects the workforce from lower energy X-Ray exposure.

The TBM-IC-BW is a user-friendly instrument. The Touch screen provides easy access to the different microprocessor applications. The program allows editing of parameters. **Optional:** viewing the event log and clock synchronization.

The **TBM-IC-BW-A**, **TBM-IC-BW-AC** and **TBM-IC-BW-B** are Wide Range Portable Alpha, Beta, Gamma X-Ray Survey Meters.

- ❖ The standard TBM-IC-BW-A consists of a 3" dia. x 3" long, free air ion chamber with a 300 cc chamber volume. Portable. Battery Power.
- ❖ The standard TBM-IC-BW-AC consists of a 3" dia. x 3" long, free air ion chamber with a 300 cc chamber volume. Wall or Benchtop Mount. AC Power
- ❖ The larger TBM-IC-BW-B consists of a 4.7" dia. x 6" long, free air ion chamber with a 1-liter chamber volume. Portable. Battery Power

TBM-IC-BW-A, TBM-IC-BW-AC and TBM-IC-B are coupled to a stable solid-state electrometer with built in A to D converter to read out directly in mR/h or μ Sv/h. **A removable Beta Cap is provided.**

BETA CAP SHIELD:

The Beta cap shields the Thin Mylar low energy entrance window (0.5 mg/cm²).

- **Removal of the cap** allows high sensitivity and low energy readings for Alpha and for low energy Beta such as C14 and X-rays as well as to the higher energy Betas and Gammas.
- **Removal of the cap** provides detection axially below 1 KeV Gamma or X-Ray, and below 100 KeV Beta and above 3.5.MeV/h Alpha.

The **TBM-IC-BW-C** is a Wide Range Portable Gamma and Higher Energy X-Ray Survey Meter.

- ❖ The TBM-IC-BW-C consists of a 5" dia. x 13" long, free air ion chamber with a 2-liter chamber volume.

The TBM-IC-BW-C is coupled to a stable solid-state electrometer with built in A to D converter to read out directly in mR/h or μ Sv/h. **No Beta Cap with this model.**

***Note:** TA also makes ion chambers that measure up to 10 million R/h. See [ION CHAMBER COMPARISON CHART](#)

- These models do not require pressurization; facilitating ease of shipment.



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Models ~ TBM-IC-BW-A ~ TBM-IC-BW-AC ~ TBM-IC-BW-B ~ TBM-IC-BW-C

DETECTORS:

Free Air Ion Chamber – Pressurization Is Not Required						
MODEL	LOW END SENSITIVITY and RANGE	CHAMBER VOLUME	CHAMBER WALLS	CHAMBER DIMENSIONS	SYSTEM DIMENSIONS	COMMENTS
TBM-IC-BW-A STANDARD CHAMBER REMOVABLE BETA CAP	10 µR/h to 1,000 R/hr (0.1 µSv/h to 10 Sv/h)	300 cc	6 mg/cm ² methacrylate graphite lined walls	3" dia. x 3" long	Self-contained with electronics and handle. Dimensions and Weight: 4" x 3.5" x 11" (10 cm x 8.9 x 28 cm) excluding handle <2 lbs (0.9 kg). complete with batteries.	Gamma, X-Rays, Betas even at very Low Energies. Methacrylate graphite lined walls facilitates accurate air equivalence
TBM-IC-BW-AC CHOICE CHAMBER NO BETA CAP	10 µR/h to 10,000 R/hr (0.1 µSv/h to 100 Sv/h)	300 cc	6 mg/cm ² methacrylate graphite lined walls	3" dia. x 3" long	Self-contained with electronics and handle. Dimensions and Weight: 4" x 3.5" x 11" (10 cm x 8.9 x 28 cm) excluding handle <2 lbs (0.9 kg). complete with batteries.	Gamma, X-Rays, Betas even at very Low Energies. Methacrylate graphite lined walls facilitates accurate air equivalence
TBM-IC-BW-B CHOICE CHAMBER REMOVABLE BETA CAP	5 µR/h to 500 R/h (50 nSv/h to 5 Sv/h)	1 Liter	6 mg/cm ² methacrylate graphite lined walls	4.7" dia. x 6"	Self-contained with electronics and handle. Dimensions and Weight: 5.7" x 3.5" x 17" (10 cm x 8.9 x 43 cm) excluding handle. <2 lbs. (0.9 kg). complete with batteries.	Gamma, X-Rays, Betas even at very Low Energies. Methacrylate graphite lined chamber walls facilitates accurate air equivalence
TBM-IC-BW-C CHOICE CHAMBER NO BETA CAP	1.0 µR/h to 100 R/hr (10 nSv/h to 1 Sv/h)	300 cc	180 mg/m ² Polished Aluminum – Corrosion Proof / Passivated – Easy To Clean	5" dia. x 13" long	Chamber contained within electronics case with handle. Dimensions and Weight: Instrument Case (Including handle): 10"W x 14"L x 10" H. 18 lbs (8.16 kg). complete with batteries.	Gamma and Higher Energy X-Rays Polished Aluminum – Corrosion Proof / Passivated – Easy To Clean



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Models ~ TBM-IC-BW-A ~ TBM-IC-BW-AC ~ TBM-IC-BW-B ~ TBM-IC-BW-C

SPECIFICATIONS:

WIDE RANGE – TBM-IC-BW SERIES:

Beta Cap Thickness:

TBM-IC-BW-A, TBM-IC-BW-AC & TBM-IC-BW-B: 540 mg/cm²

TBM-IC-BW SERIES DETECTORS:

Window: Thin Mylar 2.4" dia. x 0.5 mg/cm².

TBM-IC-BW-A (300 cc Volume) 0.01 mR/h to 1,000 R/hr to (0.1 µSv/h to 10 Sv/h)

TBM-IC-BW-AC (300 CC Volume) 10 µR/h to 10,000 R/hr (0.1 µSv/h to 100 Sv/h) **Very High Sensitivity**

TBM-IC-BW-B (1-Liter Volume) 0.005 mR/h to 500 R/hr to (50 nSv/h to 5 Sv/h)

TBM-IC-BW-C (2-Liter Volume) 1.0 µR/h to 100 R/hr (10 nSv/h to 1 Sv/h)

Detects Axially:

With Cap Off: **Gamma or X-Ray** - Below 1 KeV; **Beta** - Below 100 KeV; **Alpha** – Above 3.5 MeV

Dose Rate:

SEE FOLLOWING CHART FOR EACH INSTRUMENT.

Total Dose:

Is displayed on panel

Response:

Fast Dose Rate

Peak Hold:

Yes

Two Clocks:

1) Fast Response 2) Slow With Enhanced Sensitivity - User Settable

ELECTRONICS - TBM-IC-BW-SERIES:

DISPLAY - Bright Back-Lit Color:

Brightness: User Settable

Dimension: Display Panel Vertical View - 2.5" w x 4" h (6.3 x 10 cm) **Optional:** Horizontal View

Controls: Touch Screen Menu

Status Indicator: **Green:** High Range (10 Pulses/sec equals 1 mR/h)

Red: Over-Range Indicator

Engineering Units: mR/h or µSv/h – Other Engineering Units Available

Readouts: LCD 5 digits – Self-Adjusting

Time And Date: Real-Time - User Settable



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Data:

Electrometer: Solid State Input.
Electronics: A-D converter.

Fully Functioning Internal Microprocessor

Internal Data Logging
Data Archive and Retrieval
USB Optional: RS-232; Real-Time up load via Wi-Fi

Power: Rechargeable batteries and charger
Power: AC (**TBM-IC-BW-AC**)

Alarms: Visual/Audio: User Settable
Background: Sees Below Background and sees small changes in background
Background Subtract Feature

Calibration: Self-Calibrating
Self-Test: Yes
Zero Set: Yes - Automatic
Operating Temp: -10° F to 155° F (-23° C to 68° C)

DIMENSIONS & WIEGHT

FREE AIR ION CHAMBERS AND ELECTRONICS:

TBM-IC-BW-A and TBM-IC-BW-AC – 300 cc Volume:

Dimensions: 4" W x 3.5" H x 11" L (10 cm x 8.9 x 28 cm) excluding handle.
Weight: <2 lbs (0.9 kg). complete with batteries.

TBM-IC-BW-B – Choice of 1-Liter Volume System:

Dimensions: 5.7" W x 3.5" H x 17" L (10 cm x 8.9 x 43 cm) excluding handle.
Weight: <2 lbs. (0.9 kg). complete with batteries.

DIMENSIONS & WIEGHT

TBM-IC-BW-C - Choice of 2-liter Volume System with Electronics Case:

Dimensions: **Instrument Case (Including handle):** 10"W x 14"L x 10" H (25.4 x 35.6 x 25.4 cm).
Weight: 18 lbs. (8.16 kg).complete with batteries.



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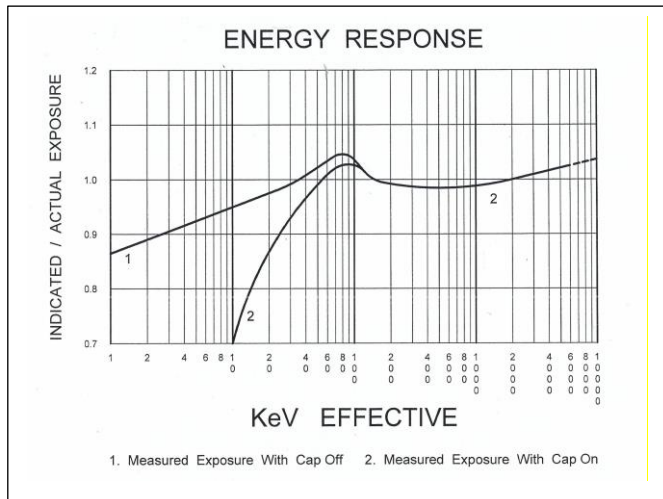
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OPTIONS:

- Allows trend and chart recorder view
- HP-10 Mode (Depth Dose)
- X-Ray compliance sleeve with 10cm² aperture - **TBM-IC-BW-A**
- Choice of Chambers:
TBM-IC-BW-A and **TBM-IC-BW-AC** Standard 300 cc; **TBM-IC-BW-B** 1-liter; **TBM-IC-BW-C** 2-liters

TBM-IC-BW-A, TBM-IC-AC, TBM-IC-BW-B



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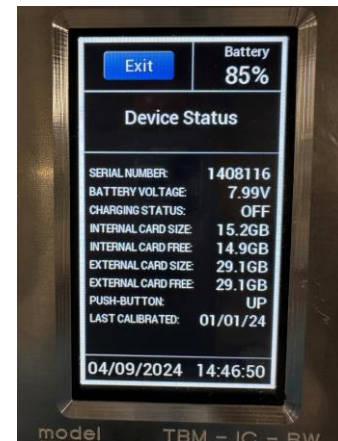
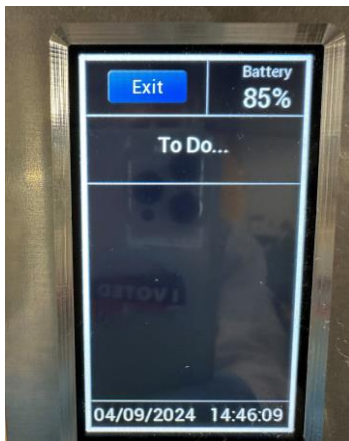
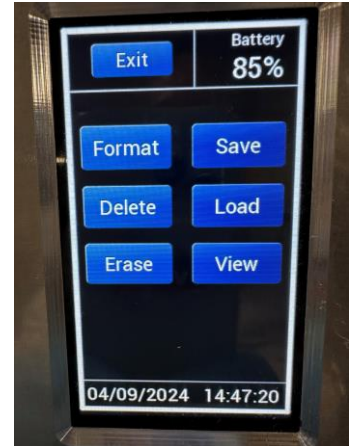
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VARIOUS DISPLAY SCREENS

TBM-IC-BW-SERIES



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- ❖ **Technical Associates thin wall Ion Chambers provide detection axially below 1 KeV Gamma or X-Ray, and below 100 KeV Beta.**
- ❖ **Other market brands have thicker chamber walls of which can lead to 0 readings (false negative) even though significant exposure.**
- ❖ **TA's TBM-IC (Ion Chamber) instruments detect and thus protects the workforce from lower energy X-Ray exposure.**
- ❖ **Not pressurized, therefore safe for shipment**
- ❖ **Pin hole leak in chamber does not create a risk of declining reading because it is not pressurized.**

ION CHAMBERS - AIR AND SURFACE – PART I ~ UNDERWATER – PART II

ION CHAMBERS - AIR AND SURFACE – PART I						
	Model	Range	Decades	Chamber Volume	Features	Lock Out Features
1	CURIE-H3-PLO	0.1 to 10,000 mCi (10 C) 3.7 to 10 ⁶ Bq to 37 to 10 ¹⁰ Bq	5	53 cc	HIGH RANGE TRITIUM WIPE TEST COUNTER 3" Sample drawer	HIGH RANGE TRITIUM Sample Measurement Range Is Up To 10 Curies. Display Units User Settable: Femto Amps, µCi, DPM, Bq, No Counting Gas Or LSC Cocktail Required ~Does Not Generate Waste~
2	TBM-ACC-X	50 mR/s 500 mSv/s	4	450	ULTRA HIGH ENERGY BETA, GAMMA, COSMIC RAYS Sealed Plasma Chamber. Detects accelerator produced pulses and radiation.	HIGH ENERGY EVENT DETECTOR The ONLY portable accelerator plasma chamber® that will detect accelerator produced pulses and radiation. NOTE: Uses a unique plasma chamber that prevents high ion recombination to achieve a strong accurate signal. NOTE: Use in high energy accelerator - LINAC
3	TBM-IC-AJI	0.05-10 R/h 0 µSv/h to 100,000 µSv/h (In a single range)	5.5	1,000 cc	ALPHA, BETA, GAMMA More stable below 2mR/h.	MEDICAL VERSION Enhanced sensitivity with large volume chamber. NOTE: Preferred unit by medical users. (In a single range) Removable Beta Cap



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6	TBM-IC-BW (3) Models A, B, C (In a single range)	(A) 0.01 to 1,000 R/h 0.1 μ Sv/h to 10 Sv/h ~~~~~ (B) 0.005 mR/h-1,000 R/h 50 nSv/h to 5 Sv/h ~~~~~ (C) 1.0 μ R/h to 100 R/h 10 nSv/h to 1 Sv/h	5	(A) 300 cc ~~~~~ (B) 1-liter ~~~~~ (C) 2-liter - No Beta Cap	ALPHA, BETA, GAMMA All-around Multi-purpose with Wide versatility (A) Standard 0.01R/h to 1,000 R/h. 0.1 μ Sv/h to 10 Sv/h	MULTIPLE-USE With the Beta cap removed TBM-ICs can measure Alphas 3.5 MeV/h, and low energy Betas of 100 KeV/h and Gammas down to 1 KeV/h. Touch Screen Display (In a single range) Removable Beta Cap (A) and (B)
5	TBM-IC-HLS	0.1mR/h to 1,000 R/h 1 μ Sv/h to 10 Sv/h (In a single range)	7	300 cc	ALPHA, BETA, GAMMA Toggle switch to additional second range to 1,000 R/h.	HOMELAND SECURITY VERSION NOTE: . This ultra-wide range conforms to ANSI N42.33 Homeland Security Type 2 (In a single range) Removable Beta Cap
4	TBM-IC-LR	0.1 to 1 R/h 1.0 μ Sv/h to 10 Sv/h (In a single range)	5	2,000 cc	ALPHA, BETA, GAMMA Sees 10 times lower, 2 liter chamber.	ULTRA-LOW RANGE SENSITIVITY. NOTE: with extra-large volume chamber – 2 liter detects background levels in 10 sec. (In a single range) Removable Beta Cap
6	TBM-IC-MARK V	0.1 to 10 R/h 0 μ Sv/h to 100,000 μ Sv/h (In a single range)	5	300 cc	ALPHA, BETA, GAMMA All-around Multi-purpose with Wide versatility from 0.1 mR/h - 10 R/h.	MULTIPLE-USE With the Beta cap removed TBM-ICs can measure Alphas and low energy Betas of 30 KeV and Gammas down to 1 KeV. NOTE: Most popular model. (In a single range) Removable Beta Cap
7	TBM-IC-MVR	0.1 to 50,000 mR/h 1.0 μ Sv/h to 0.5 Sv/h (In a single range)	5.5	450 cc	GAMMA & HIGH BETA Rugged aluminum chamber. Up to 50R/h.	MILITARY VERSION. NOTE: Rugged for use in power plants, industry, and military. (In a single range)
	TBM-ICP	0.1 mR/hr to 50,000 mR/hr (1 μ Sv/h to 0.5 Sv/h)	5.5	450cc	BETA, GAMMA, X-RAY Portable Micro Ion Chamber	Rugged aluminum chamber. Up to 50R/h. NOTE: Rugged for use in power plants, industry, and military



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8	TBM-IC PULSE-X	<p>0.01 R/h to 50 R/h 0.1 μSv/h to 500 mSv/h (In a single range)</p> <hr/> <p>PULSE MODE</p> <p>1.0 mR/h to 50 R/h 10 μSv/h to 500 mSv/h (In a single range) (8 digits)</p>	5	450 cc	<p>PULSED X-RAY</p> <p>Sealed Plasma Chamber. Detects pulsed X-Ray response.</p>	<p>WORLD'S ONLY 20 NANOSECOND PULSED X-RAY DETECTOR.</p> <p>Wide Energy Response (In a single range)</p> <p>NOTE: Uses a unique plasma chamber that prevents high ion recombination to achieve a strong accurate signal.</p> <p>Suitable for Pulse Width: 20 nano-seconds to continuous emission</p> <p>Repetition Rates: Single pulse to 1000/second and above</p> <p>Wide Energy Response: 2 KeV to 10 MeV & above</p>
9	TBM-IC-RN	<p>10 pCi/l to 1 μCi/l 370 Bq/m³ to 3.7 x 10⁷ Bq/l (In a single range)</p>	4	600 cc.	<p>WIDE RANGE RADON</p> <p>Optional: 4 cfm pump for solid wall chamber</p>	<p>PORTABLE WIDE RANGE RADON</p> <p>10 pCi/l in 5 seconds & detects public release level in less than 10 minutes.</p> <p>Two non-pressurized ion chambers are included; an open screen chamber, (no pump required) and a solid wall chamber, (pump required).</p> <p>(In a single range)</p> <p>NOTE: *less than 1 minute Indication FOR VERY HIGH LEVELS.</p>
10	TBM-IC-XRAY	<p>1mR/h -10 R/h 0 μSv/hr to 100,000 μSv/hr (In a single range)</p>	5	300 cc	<p>X-RAY</p> <p>Includes required 10cm² aperture sleeve. X-Ray compliance meter.</p>	<p>X-RAY COMPLIANCE METER</p> <p>(In a single range)</p> <p>NOTE: Complies with FDA regulation 21 CFR1020.40</p>



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ION CHAMBERS - UNDERWATER – PART II

ULTRA HIGH RANGE ION CHAMBERS - RUGGED WATER PROOF DESIGN

	Model	Range	Decades	Chamber Volume	Features	Lock Out Features
11	CP-MU-GN	0.1KR/h to 1000.0 KR/h 100 R/h to 10 ⁶ R/h 1 Sv/h to 10,000 Sv/h	4	Ion Chamber 1 cc Proportional Chamber	GAMMA & NEUTRON System includes CP-MU electronics unit and dual probes: (1)Gamma – Ion Chamber and (1) Neutron – Proportional Chamber 60-foot low noise cable, up to 10 ⁶ R/h OPTIONAL: 100 ft cable	VERY HIGH RANGE GAMMA & NEUTRON Dual INLINE Detector Two Channel System RS-232 communications for data collection or remote computer readout. NOTE: Rugged Water proof design allows for underwater Ultra High-level monitoring in reactor and in spent fuel pool to 10 ⁶ R/h.
12	CP-MU-10K	0.1 R/h to 10,000 R/h 1R/h to 10 ⁴ R/h 1 μSv/h to 10 mSv/h Sv/h Optional: 0.1 – 20,000 R/h	5	100 cc	GAMMA System includes CP-MU electronics unit and one stainless steel chamber/probe. 60-foot low noise cable, up to 10 ⁶ R/h OPTIONAL: 100 ft cable	VERY HIGH RANGE GAMMA Works as both underwater and as a Super High Range Survey Meter. RS-232 communications for data collection or remote computer readout. NOTE: Rugged Water proof design allows for underwater Ultra High-level monitoring in reactor and in spent fuel pool to 10 ⁴ R/h.
13	CP-MU-D1	0.1-1,000 KR/h 1Sv/h to 10KSv/h	4	1 cc	GAMMA System includes CP-MU electronics unit and one stainless steel chamber/probe. 60-foot low noise cable, up to 10 ⁶ R/h OPTIONAL: 100 ft cable	VERY HIGH RANGE GAMMA RS-232 communications for data collection or remote computer readout. NOTE: Rugged Water proof design allows for underwater Ultra High-level monitoring in reactor and in spent fuel pool to 10 ⁶ R/h.



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WIDE RANGE PORTABLE ION CHAMBER

Model ~ TBM-IC-BW SERIES

Models ~ TBM-IC-BW-A ~ TBM-IC-BW-AC ~ TBM-IC-BW-B ~ TBM-IC-BW-C

14	CP-MU-D100	1mR/h to 10,000 R/h 1R/h to 10 ⁴ R/h 10 mSv/h to 100 Sv/h	4	100 cc	<p>GAMMA</p> <p>System includes CP-MU electronics unit and one aluminum chamber/probe.</p> <p>60-foot low noise cable, up to 10³ R/h</p> <p>OPTIONAL: 100 ft cable</p>	<p>MID RANGE GAMMA</p> <p>RS-232 communications for data collection or remote computer readout.</p> <p>NOTE: Rugged Water proof design allows for monitoring in both reactor and spent fuel pools to 10³ R/h.</p>
15	CP-MU-D1000	0.1 to 1,000 R/h 1 uSv/h to 10 Sv/h	4	1,000 cc	<p>LOW RANGE GAMMA</p> <p>System includes CP-MU electronics unit and one aluminum chamber/probe.</p> <p>60-foot low noise cable, up to 10³ R/h</p> <p>OPTIONAL: 100 ft cable</p>	<p>LOW RANGE GAMMA</p> <p>RS-232 communications for data collection or remote computer readout.</p> <p>NOTE: Rugged Water proof design allows for monitoring in both reactor and spent fuel pools to 10³ R/h.</p>
16	CP-MU-7-D1 & D1000	1.0 to 10 million R/h 10mSv/h to 100KSv/h	7	1 cc & 1,000 cc	<p>GAMMA</p> <p>System includes CP-MU-7 electronics and dual probes: (2) Gamma – Ion Chambers</p> <p>(1)High Range and (1)Low Range</p> <p>60-foot low noise cable, up to 10⁷ R/h</p> <p>OPTIONAL: 100 ft cable</p>	<p>DUAL DETECTOR SYSTEM ULTRA- HIGH AND LOW RANGES</p> <p>RS-232 communications for data collection or remote computer readout.</p> <p>NOTE: Rugged Water proof design allows for Ultra High-Level monitoring in both reactor and spent fuel pools to 10³ R/h</p> <p>Unplug one detector and plug in the other to switch ranges</p>



Real - Time
Air & Water
Specialists



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