

# DIGITAL CONTAMINATION MONITOR

Model - TBM-3SR-D & TBM-3SR-DN

## FEATURES:

- ALPHA, BETA, GAMMA, X-RAY (TBM-3SR-D)
- ALPHA, BETA, GAMMA, X-RAY, NEUTRON (TBM-3SR-DN)
- DIGITAL DISPLAY
- LIGHT WEIGHT
- RUGGED
- ONE HAND OPERATION
- BUILT-IN SPEAKER
- LARGE 2" (15 cm<sup>2</sup>) PANCAKE DETECTOR
- BETA SHIELD WINDOW
- ANTI-SATURATION CIRCUIT
- AUDIO / VISUAL INDICATOR
- **OPTIONAL** – SERIAL PORT
- **IP64**
- **CE Mark**



TBM-3SR-D & TBM-3SR-DN



TBM-3SR-D & TBM-3SR-DN  
BACK WITH BETA SHIELD

## APPLICATION:

Its small size, light weight, one hand operation, and large detector area make this a very useful monitor for surveying bench tops or checking hands and clothes for almost any radioactive contamination.

Excellent for Fire Department, Ambulance, Police, First Responders and U.S Custom

Personnel use for surveying people, cars, luggage, surface of room, etc.

## DESCRIPTION:

- Small Digital Ratemeter
- Built in 2" diameter pancake tube and speaker.
- Reads out in mR/hr (or counts per second).
- Thin window recessed and protected by sturdy grill.
- Sliding methacrylate Beta shield for additional protection for thin GM tube window.
- Alpha, Beta, Gamma, and X-Ray radiation. **(TBM-3SR-D)**
- Alpha, Beta, Gamma, X-Ray, and Neutron radiation. **(TBM-3SR-DN)**
- Anti-saturation circuit will not fall below full scale in high fields
- Tested to 100R/h.

**EXPERTS RECOMMEND TBM-3SR-D FOR FIRE DEPARTMENT USE ON EVERY FIRE ENGINE.**



**TECHNICAL ASSOCIATES**

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### SPECIFICATIONS:

#### Electronics:

Digital Display:	Large 6-digit LCD for Dose Rate
Decades:	4 decades
Ranges:	0.01 to 100.00 mR/h (0.1µSv/h to 1.0 mSv/h)
Ranges:	1 x 10 <sup>-10</sup> µCi/cc
Display:	8-Digit LCD for Integrated Modes Eliminates the need for a Range Switch, and Auto Range
Accuracy:	±10%
Switch Positions:	On/Off Toggle, Rate to Integrate Button, Program Button
Battery Test Switch:	Toggle
Beta Shield:	Methacrylate 0.125", 3.1mm.
Calibration:	Digital calibration of both dose and dose rate from front panel or optionally by computer with serial option.
<u>Detector:</u>	
Detector:	2" T-1190 "pancake GM tube ( <b>TBM-3SR-D</b> )
Detector:	2" T-1190 "pancake GM tube with Neutron converter for fast & Slow Neutrons ( <b>TBM-3SR-DN</b> )
Diameter:	2 inches (5cm).
Window Diameter:	1-3/4 inches (4.5cm)
Window Thickness:	1.5 mg/cm <sup>2</sup>
Quench Gas:	Halogen for long life.
Background:	Typical <50 cpm. Thin Profile of tube (13mm) gives low background.
Efficiency:	All <b>Betas</b> and <b>Alphas</b> that have the energy to penetrate the thin window. <b>Gamma</b> sensitivity nominal is 3,500 cpm / mR/h (based on Cs137).
<u>Environment:</u>	
Operating Temp:	14° F to 122° F (-10°C to +50°C)
Humidity:	95% Non-Condensing
Dimensions:	3" Wide x 5-3/8" Long x 3-1/2" High. Excluding knobs and handle. (7.6 cm x 13.6 cm x 8.9 cm)
Battery:	(6) AA cells – Easy change, snap-in battery holder
Battery Life:	Approximately 100 hours in normal use
Weight:	1 lb (0.45 kg)

### OPTIONAL

- Lithium batteries
- Lighted LCD Display.
- LED and audio alarm
- 2-way Serial port
- Fully stable Audio Alarm

**FIRE FIGHTERS:** TBM-3SR-D & TBM-3SR-DN are available with engineering unit options:

- mR/hour Scale
- single Counts Per Second Scale (cps)
- µSv/h



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# DIGITAL CONTAMINATION MONITOR

**Model - TBM-3SR-D & TBM-3SR-DN**

- Detachable Handle TBM-3SR(DL)



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