



# Digital Contamination Monitor

Model – TBM-3SR-D

Experts Recommend TBM-3SR-D For Fire Department Use On Every Fire Engine.

## Features

- Alpha, Beta, Gamma, X-Ray
- 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**

## 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
- Anti-saturation circuit will not fall below full scale in high fields
- Tested to 100R/h.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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# Digital Contamination Monitor

## Model – TBM-3SR-D

### Specifications

<b>Digital Display:</b>	Large 6 digit LCD
<b>Decades:</b>	4 decades
<b>Ranges:</b>	0.01 to 100.00 mR/h (0.1 $\mu$ Sv/h to 1.0 mSv/h)
<b>Display:</b>	8 Digit LCD Digital Dose Rate and Integrated Modes Eliminates the need for a Range Switch, and Auto Range
<b>Accuracy:</b>	$\pm$ 10%
<b>Switch Positions:</b>	On/Off Toggle, Rate to Integrate Button, Program Button
<b>Battery Test Switch:</b>	Toggle
<b>Detector:</b>	2" T-1190 "pancake GM tube
<b>Diameter:</b>	2 inches (5cm).
<b>Window Diameter:</b>	1-3/4 inches (4.5cm) Window Thickness: 1.5 mg/cm <sup>2</sup>
<b>Quench Gas:</b>	Halogen for long life.
<b>Background:</b>	Typical <50 cpm. Thin Profile of tube (13mm) gives low background.
<b>Efficiency:</b>	All Betas and Alphas that have the energy to penetrate the thin window. Gamma sensitivity nominal is 3,500 cpm / mR/h (based on Cs137).
<b>Operating Temp:</b>	-35° C to 75° C
<b>Humidity:</b>	95% Non-Condensing
<b>Dimensions:</b>	32" Wide x 5-3/82" Long x 3-1/22" High. Excluding knobs and handle. (7.6 cm x 13.6 cm x 8.9 cm)
<b>Beta Shield:</b>	Methacrylate 0.1252", 3.1mm.
<b>Calibration:</b>	Digital calibration of both dose and dose rate from front panel or optionally by computer with serial option.
<b>Battery:</b>	(6) AA cells – Easy change, snap-in battery holder
<b>Battery Life:</b>	Approximately 100 hours in normal use
<b>Weight:</b>	1 lb (453 grams)

### Optional

- Lithium batteries
- Lighted LCD Display.
- LED and audio alarm
- 2-way Serial port
- Fully stable Audio Alarm
- Detachable Handle TBM-3SR(DL)

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

- mR/hour Scale
- single Counts Per Second Scale (cps)
- $\mu$ Sv/h



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