

# DIGITAL RATEMETER/SCALER

Model ~ TBM-3D

## FEATURES:

- BATTERY OPERATION
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- HIGH VOLTAGE 400V-1200V DC
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 8 DIGIT LCD DISPLAY
- 2" DISPLAY SCREEN
- OPTIONAL ALARM
- IDEAL FOR LONG COUNT - UP TO 24 HOURS OR MORE
- USE ANY GM OR SCINTILLATION ALPHA, BETA, GAMMA, X-RAY, POSITRON DETECTOR.
- OPTIONAL RS-232 SERIAL OUTPUT



## APPLICATION:

**TBM-3D** Automatic Scaler is a battery operated instrument. Uses include sample or wipe counter. "Frisker" monitor and lab monitor. The **TBM-3D** is also used as an area monitor, again making use of the digital ratemeter modes covering six decades and also utilizing the optional preset alarm.

## DESCRIPTION:

It includes a digital ratemeter operating mode in which it presents 6 full decades of accurate readout without switching. This is a multi-purpose lightweight Scaler with internal replaceable battery.

All 400-1200V GM and scintillation probes are usable with the **TBM-3D** as are digital ion chamber and gas proportional probes.

The **TBM-3D** is a sturdy table top or portable instrument incorporating both scaler and ratemeter functions.

Pulses are seen via flashing red LED for visual service in dark areas. Gate time for the scaler is free running mode. Readings directly in mR/hr or other units can be made by choosing correct scaling factors for the scaler and the ratemeter.



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## SPECIFICATIONS:

**Detector:** Mates with GM Probes or scintillation detectors.

**Detector Connector:** BNC - Standard

**Detector Bias Supply:** 400 V DC to 1200 V regulated and filtered.  
Other voltage levels-optional.

**Efficiency:** Greater than 25%

**Units:** Cps, bq - User Settable

## Power:

**Batteries:** 6 AA cells or optional in-place rechargeable batteries.

**Battery Life:** 100 hours with Alkaline cells (200 hours with - Lithium cells).

**Battery Check:** Push button and LED indicator.

## Construction:

All plug in circuit cards, essentially no wires. Rugged, lightweight

## Weight & Dimensions

**Dimensions:** 7.6cm H x 14cm W x 7.6cm D (3" x 5.3" x 3")  
excluding handle and knobs.

**Weight:** 600 grams, (21 oz.)

## Options:

Alarm circuit with red LED and audio alarm

RS-232 serial circuit

Pre-amp for proportional detectors

Other connectors - MHV etc

In-place rechargeable batteries

Digital Display	RATEMETER	SCALER
Range	6 digit LCD	8 digit LCD
User Settable Scale Factor	0.1 - 20,000 count/sec	•0-10,000,000 counts
Time Constant	0.01 to 99 seconds Display Refresh Rate	Free Running



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