

# DIGITAL RATEMETER/SCALER

数字计数器/定标器

Model # TBM-3D

## FEATURES: 特点

- BATTERY OPERATION
- 电池供电
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- 计数率和总计数为两个独立的标定因数
- HIGH VOLTAGE 400V-1200V DC
- 高压 400V-1200V 直流
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 计数器时间常数 0.1-99 秒
- 8 DIGIT LCD DISPLAY
- 8 位数数字 LCD 显示
- OPTIONAL ALARM
- 选购报警功能
- BRING YOUR OWN STOP WATCH, IDEAL FOR LONG COUNT - UP TO 24 HOURS OR MORE
- 自带秒表，理想用于长时计数-达 24 小时或更多
- ANY GM OR SCINTILLATION ALPHA, BETA, GAMMA, X-RAY, POSITRON DETECTOR.
- 任意 GM 或闪烁 $\alpha\beta\gamma$ ，X-Ray 探头
- 选购 RS-232 串口输出 OPTIONAL RS-232 SERIAL OUTPUT



**TBM-3D** Automatic Scaler is a battery operated instrument. Uses include sample or wipe counter. ``Frisker" monitor and lab monitor. It includes a digital ratemeter operating mode in which it presents 6 full decades of accurate readout without switching. 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.

TBM-3D 自动定标器电池驱动，可用作“取样”或“擦拭”计数器，“搜查”监测仪和实验室监测仪。此仪器包括一个数字计数器，操作模式无需切换显示 6 数量级精确读数。此仪器也可用作区域监测器，数字计数率模式显示 6 个数量级读数，也可选购预设报警器。



**DESCRIPTION:** The unit 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.

描述：此仪器是一款多用途轻量定标器，带内置可更换电池。所有 400-1200V GM 管或闪烁探头可以和 TBM-3D 一同使用，还有数字电离室和流气式正比探测器。TBM-3D 是一款结实的台式/便携式仪器，具有定标器和计数器功能。

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.

在暗处可见闪烁红色 LED 显示脉冲，定标器控制时间显示“自由流”模式，直接读出 mR/hr 或通过选择正确定标因数读出其它单位。

#### **SPECIFICATIONS:**

##### 规格

- **Detector:** Mates with GM Probes or scintillation detectors.
- **探测器：**和 GM 探头或闪烁探测器一起使用  
Detector connector: BNC - Standard
- **探测器连接件：**BNC-标准  
Detector Bias Supply: 400 V DC to 1200 V regulated and filtered - other voltage levels-optional.
- **探测器偏置电源：**400 V DC -1200V 调节电压，选购其它电压
- **Power:** 电源  
Batteries: 6 AA cells.
- **电池：**6 节 AA 电池  
Battery Life: 100 hours with Alkaline cells (200 hours with - Lithium cells).
- **电池寿命：**100 小时碱性电池 ( 200 小时锂电池 )  
Battery Check: Push button and LED indicator.
- **电池检测：**按钮和 LED 指示
- **Construction:** All plug in circuit cards, essentially no wires. Rugged, lightweight
- **结构：**全插卡式，基本无线，耐用轻量
- **Dimensions:** 7.6cm H x 14cm W x 7.6cm D (3" x 5.3" x 3") excluding handle and knobs.
- **尺寸：**7.6cm H x 14cm W x 7.6cm D (3" x 5.3" x 3")，不含把手
- **Weight:** 600 grams, (21 oz.)



- **重量** : 600 克 ( 21 盎司 )
- **Options:** Alarm circuit with red LED and audio alarm
- **选择** : 带红色 LED 和声音报警
- RS-232 serial circuit
- RS-232 串口线路
- Pre-amp for proportional detectors
- 用于正比探测器的前置放大器
- Other connectors - MHV etc
- 其它连接件-MHV 等

MODE 模式	RATEMETER 计数器	SCALER 定标器
Digital Display: 数字显示	6 digit LCD	8 digit LCD
Range 量程	0.1 - 20,000 count/sec	0-10,000,000 counts
User Settable Scale Factor 用户设定定标因数	0.0001 to 1,000	0.0001 to 10.0
Time Constant 时间常数	0.01 to 99 seconds Display Refresh Rate	Free Running



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