

ANALYZING SCALER RATEMETER

α 手监测器
Model # FS-5T

FEATURES:

特色

- 2 CHANNEL - 4 DETECTOR ZnS (Ag)
- 2 通道-4 探头 ZnS (Ag)
- LINE OR BATTERY OPERATION
- AC 线或电池操作
- PRESET TIME 1-99 SEC. AND 1-99 MIN.
- 预设时间 1-99 秒, 1-99 分钟
- AUTO (REPEAT) MODE
- 自动模式 (重复)
- CALIBRATED SETTABLE HIGH VOLTAGE 0-2500V
- 校准预设高压 0-2500V
- AUTO BATTERY STANDBY IF POWER FAILURE 48 HRS.
- 断电时备用电池自动启动供电 48 小时
- BRIGHT-7 DIGIT LED DISPLAY
- 明亮 7 位数 Led 显示
- CONTINUOUSLY ADJUSTABLE ALARM 0-500K CPM
- 连续可调节报警 0-500K CPM
- THREE INDEPENDENT SINGLE CHANNEL ANALYZERS SWITCH SELECTABLE
- 三个独立单通道分析器, 开关选择
- CRYSTAL CONTROLLED
- 晶体控制
- ANY T/A GM, PROPORTIONAL, SOLID STATE, DIGITAL, ION OR SCINTILLATION ALPHA, BETA, GAMMA, X-RAY, POSITRON, NEUTRON PROBE
- 任何 TA GM 管: 正比, 固态, 数字, 离子或闪烁 α , β , γ , X-ray 质子, 中子探头
- ALL PLUG-IN CIRCUIT CARDS ESSENTIALLY NO WIRES
- 全部插卡式, 基本上无接线



FS-5T



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APPLICATION: The **FS-5T** Automatic Scaler is a line operated instrument with battery standby. Uses include sample or wipe counter. "Frisker" monitor and lab monitor. It includes a digital ratemeter operating mode in which it presents 7 full decades of accurate readout without switching. The **FS-5T** is also used as an area monitor, again making use of the digital ratemeter modes covering seven decades and also utilizing the preset alarm that is built into the instrument. An extra safety feature of the **FS-5T** when it is used as an area monitor is that a switch is automatically made to battery operation in event of power failure.

应用：FS-5T 自动测量仪是一款在线操作仪器带备用电池。用途包括样品或擦拭计数器，"Frisker"显示器和实验室显示器。包括一台数字率表，操作模式中显示 7 个数量级读数无切换。FS-5T 也可以用作区域监测器，使用数字率表显示 7 个数量级，预设报警内置在仪器中，用作区域监测器时，额外安全功能设置是：如果电源不供电时，自动切换为电池操作。

DESCRIPTION: The **FS-5T** is a multi-purpose lightweight Scaler with internal chargeable battery. All GM and scintillation probes are usable with the FS-5T as are digital ion chamber and gas proportional probes. The **FS-5T** is a sturdy table top or portable instrument incorporating both scaler and ratemeter functions, three independent single channel analyzers, switch selectable and variable high voltage 0-2500V. The panel meter is a taut band type for maximum ruggedness.

描述：FS-5T 是一款多用途轻量测量仪带内置可充电电池。所有 GM 和闪烁探头与 FS-5T 兼容，数字电离室和流气正比探头也如此。FS-5T 是一款耐用桌面/便携式仪器，兼备测量器和率表功能，三个独立单道分析仪，切换选择高压 0-2500V，指针面板仪表耐用强度大。

Pulses are seen via a red LED for visual service in dark areas and the time base for the scaler operation is indicated by a flashing green LED. High voltage is settable to accommodate for all types of scintillator, proportional and GM detectors. Four ranges are incorporated into the ratemeter. Gate times for the scaler may be set from 1 to 99 seconds and 1 to 99 minutes. The scaler has an auto cycle capability particularly useful for increasing the accuracy of rate measurements. Power switch and HV pot and other controls are designed to prevent inadvertent change. The output of the "beeper" is varied by a volume control from completely silent to loud enough to be used in noisy environments. Standard features include output jack for optional chart recorder. Readings directly in mR/hr or other units can be made by choosing correct recycling time on the scaler or with transparent meter overly card on the ratemeter.

脉冲通过一个红色 Led 可视以便暗处使用，测量器时基由闪烁绿色 LED 指示，可设定高压以适应所有类型闪烁体，正比和 GM 探头。率表四量程，定标器控制时



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间可设定范围 1-99 秒, 1-99 分钟。计数器设有自动循环功能, 尤其在增加率测量灵敏度非常有用, 电源开关, HV 电位计和其它控制防疏漏设计。蜂鸣音输出带音量控制, 从静音到嘈杂环境能听到的高音, 标准功能包括输出插孔用于图形记录器。直接读出 mR/hr 或其它测量单位, 可通过选择率表上正确循环时间或率表上使用透明刻套尺实现。

Optional digital printer, strip chart recorder and RS-232. IEEE 488 and other interfaces make **FS-5T** fully system compatible.

选购数字打印机, 条形图表记录器和 RS-232. IEEE 488 和其它接口, 这些功能使得 FS-5T 全系统兼容。

SPECIFICATIONS: 规格

- **Digital:** 数字
Readout: 7 Digit LED-High Visibility
- 读出: 7 位数 LED-高清晰度
Time Base: Crystal controlled 1-99 sec., 1-99 min.
- 时基: 控制晶体-99 sec., 1-99 min.
Run Modes: Single Shot, Auto-cycle
- 运行模式: 单帧, 自动循环
Display Modes: Latched, Continual Update
- 显示模式: 锁定, 连续更新
Gate Monitor: Green LED
- 控制显示器: 绿色 Led
- **Analog:** 模拟
Meter: 0-500 cpm, 3-1/2 inch linear scale.
- 率表: 0-500 cpm, 3-1/2
Ranges: x1; x10; x100; x1,000 (0-500, 5k, 50k, 500k, cpm)
- 量程: x10; x100; x1,000 (0-500, 5k, 50k, 500k, cpm)
Time Constant: Fast, Slow (2 or 11 seconds)
- 时间常数: 快, 慢 (2 或 11 秒)
Pulse Monitor: Red LED one flash per pulse
- 脉冲显示器: 红灯 LED, 每个脉冲一闪
Range: Usable probes cover range 1 μ R/h to 5000 R/h; 1 cpm to 500,000 cpm;
0.1 mR/h to 10 R/h.
- 探头测量量程 1 μ R/h - 5000 R/h; 1 cpm - 500,000 cpm;
Audio Indicator: Piezo electric sound maker with volume adjust.
- 音频指示: 压电音带音量调节
Output for Strip-Chart Recorder: Standard feature 0 to 1 Volt.
- 条带收录器输出: 标准 0 - 1 Volt



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- **Single Channel Analyzer Mode:** 2 Preset (resettable) window positions plus "variable"
- **单道分析器模式:** 2 个预设窗位置加“可变”
10-turn, 1,000 division pot for threshold
- **阈值 10 转, 1,000 刻度电位计**
10-turn, 1,000 division pot for window width
- **窗口宽 10 转, 1,000 刻度电位计**
- **Discriminator Mode:** 10-turn, 1,000 division pot for threshold (same as above)
- **鉴别器模式:** 阈值 10-转, 1,000 刻度电位计
- **Alarm:** Settable at any point on scale. A "push-to-display" button displays alarm set point.
- **报警:** 可设定量程内任何点, 按动按钮显示设定点
- **Alarm Indicators:** Red lamp plus Sonalert
- **报警指示器:** 红灯加音频
- **Detector:** Mates with T/A Probes, any pulsed ion chamber or GM, proportional, solid state, or scintillation detector.
- **探测器:** 配合 TA 探头, 脉冲电离室或 GM, 正比计数, 固态, 或闪烁探头
Detector connector: MHV
- **探头连接:** MHV
Detector Bias Supply: 300 V to 2500 V regulated and filtered.
- **探头偏压电源:** 300 V to 2500 V 调节和过滤
High Voltage is displayed on meter by pushing a button.
- **通过按钮显示高压**
- **Power:**
- **电源**
AC Operation: 120V AC-60 Hz (optionally 115 or 230V AC-50 or 60 Hz).
- **AC 操作:** 120V AC-60 Hz (选择 115 或 230V AC-50 或 60 Hz).
Batteries: Built-in rechargeable battery and charger.
- **电池:** 内置可充电电池盒充电器
Battery Life: 48 hours between charges.
- **电池寿命:** 每次充电可使用 48 小时
Battery Check: On main range switch and meter marking.
- **电池检测:** 主量程旋钮和刻度标记
- **Construction:** All plug in circuit cards, essentially no wires.
- **结构:** 全部插电式, 无线
- **Dimensions:** 35cm H x 30cm W x 30cm D (14" x 12" x 12") includes handle and tilt stand, both in folded position.
- **尺寸:** 35cm H x 30cm W x 30cm D (14" x 12" x 12")包括把手和支架, 二者均折叠
- **Weight:** 4.5 Kg (10 lbs.)



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- **重量:** 4.5 公斤
- **Options:** FS-5T23, RS-232 and other standard interfaces FS-5TW-ACW-AC only. No battery backup.
- **选购:** FS-5T23, RS-232 和其它标准接口 FS-5TW-ACW-AC, 无备用电池
-
- **Accessories:**
- 配件
 - Strip chart Recorder, Digital Printer.
 - 条形纸记录器, 数码打印机
 - Over 50 different TA probes and sample counter detectors.
 - 50 多款不同 TA 探头和样品计数探头
 - Probe holder supplied no charge if probe and FS-5T are purchased together.
 - 同时购买探头和 FS-5T, 探头卡托免费
 - Transparent meter overlay for ratemeter to read mR/h or Sv/h with various probes.
 - 率表透明套刻尺读出各种探头探测单位 mR/h 或 Sv/h



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