

WIDE RANGE BETA-GAMMA GM AREA MONITOR

款量程 β - γ GM 区域监测器

Model # FML-7B

FEATURES: 特点

- ON-LINE REAL-TIME MONITORING
- 在线实时监测
- ALL PLUG-IN MODULAR
- 插卡式组件
- RACK MOUNTING OR CASE
- 架装式或箱装
- SINGLE OR MULTI-CHANNEL
- 单通道/多通道
- RUGGED GM DETECTORS
- 耐用 GM 探头
- LOCAL OR REMOTE MONITORING
(UP TO 500 FT. CABLE OPTIONAL)
- 现场或遥控监测 (长达 500 英尺缆线, 选购)
- HIGH LEVEL ALARM, SOLID STATE, NON-CONTACTING
- 高限报警, 固态, 非接触
- RS-232 OUTPUT FOR PRINTER OR PC AND REMOTE DISPLAY OUTPUTS
- RS-232 输出用于打印机或 PC 和遥控显示输出
- MICROPROCESSOR BASED DATA MEASUREMENT AND DISPLAY
- 微处理数据测量和显示

APPLICATION: Area monitor in and around nuclear reactors, hot cells, irradiators and other facilities handling radioactive materials.

应用: 核反应堆, 热室, 辐照器及其它处理辐射材料设施的内部和周围区域监测

GENERAL DESCRIPTION: The FML-7B Series Radiation Monitors incorporate a digital alarm ratemeter, power supply, alarm, amplifier, choice of rack or case, and reliable GM detector. Because of the plug-in modular construction, additional channels or functions can be added. GM detectors and circuit design prevent the system readings from falling even in very high fields. Front panel controls allow the alarm set point to be displayed. Alarm activation produces flashing red light on front panel and piercing intermittent 2000Hz tone.

简述: FML-7B 系列监测器配备数字报警仪表, 电源, 报警, 放大器, 选择机架或机箱, 可靠 GM 探头。因为插卡式模块结构, 通道可增加或增加功能。GM 探头和线路设计防系统读数在过量程情况下滑出量程。前板控制允许设定点显示。报警激活时前板产生闪烁红灯和刺耳 2000Hz 间歇音。

Optional relay is also closed (or opened) for activation of remote



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US NUCLEAR CORP

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alarms. **Optional** stand-by battery power available.

选购继电器闭合（或打开）以启动遥控报警，选购备用电池电源

SPECIFICATIONS:

规格

- **Range:** 4 decade dynamic range 0.1 mR/hr to 1 R/hr * (artificial background supplied by internal radiation source in probe)
*Other ranges available to 1,000 R/hr or down to 0.01 mR/hr.
- **量程:** 4 量级动态量程 0.1 mR/hr - 1 R/hr * (探头内置辐射源提供人工本底)，提供其它量程上限 1,000 R/hr，下限 0.01 mR/hr.
- **Accuracy:** +/- 10% of decade
- **精度:** +/- 10% of decade
- **Detector:** Energy compensated halogen quenched GM detectors, in ruggedized probe with internal radiation source. Supplied with 8ft. cable. (Up to 500ft. of cable can be supplied as an **Option**.)
- **探头:** 能量补偿卤素淬灭 GM 探头，带内置辐射源耐用探头，提供 8 英尺长缆线（可选择 500 英尺）
Optional high range systems use High Range GM detectors. Detector is supplied with 8 ft. cable (up to 500 ft. of cable can be supplied as an option).
- 选购高量程系统使用高量程 GM 探头。探头带 8 英尺缆线(可选购提供 500 英尺)
- **Anti-Saturation:** Circuit is incorporated to prevent readings from falling below full scale in over range conditions (tested to 1,000 R/hr).
- **防饱和:** 电路防止读数在过量程条件下偏出量程（测 1,000 R/hr).
- **High Voltage Output:** 0 to +1500V at 200 μ A continuously adjustable.
- **高压输出:** 0 - +1500V 在 200 μ A 连续调整
- **Energy Dependence:** $\pm 20\%$ from 100 KeV to 1.2 MeV.
- **能量依赖:** $\pm 20\%$ 从 100 KeV 到 1.2 MeV.
- **Temperature:** Operating range between -30°C and 50°C; drift less than 17% per °C at room temperature. 0-95% humidity non-condensing.
- **温度:** 操作范围-30°C - 50°C，在室温下每度漂移少于 17%，0-95% 湿度无冷凝。
- **Readout:** Large, easy to read Roentgen or Sievert display. User programmable.
- **读出:** 大而易读伦琴或希沃特显示，用户预设/编程



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- **Front Panel Controls:** Alarm Level Set, Display Alarm Set Point, Alarm Reset Pushbutton Power On-Off, Switch
- **前板控制:** 报警水平设定, 显示报警设定点, 报警重置按钮, 电源开关
- **Alarms:** Alarm level is adjustable over entire range. Alarm indicators include flashing red light and beeper.
- **报警:** 报警水平全量程可调整, 报警指示器包括闪烁红灯和蜂鸣音
- **Power:** 105-125 V (or 200-240 V), 50-60 Hz. Optional 12 Volt operation. Optional standby batteries, normally under continuous charge, automatically provide power for one week in event of AC power failure.
- **电源:** 105-125 V (或 200-240 V), 50-60 Hz. 选购 12 Volt 操作。选购备用电池, 正常持续充电, 一旦 AC 电源故障自动供电一周
- **Mounting:** Electronics are normally furnished in FM-7 case but can be furnished uncased with mounting bars for rack or NEMA-4 (hostile environment) cabinet.
- **安装:** 电子学正常装配在 FM-7 箱内, 但也可无箱只带安装架或 NEMA-4 机箱 (用于恶劣环境)
- **Options:** 选购
 - Multiple channel systems.
多通道系统
 - Solenoid activated check source for system calibration.
电磁阀激活检测源用于系统校准
 - Remote alarm-flasher-howler.
遥控报警-闪灯-鸣叫
 - Remote meter readout with alarm.
遥控计量表读出带报警
 - Analog output for chart recorder - model **FIL-7DPA**
模拟输出用于图表记录器-型号 **FIL-7DPA**
 - Standby batteries.
备用电池
 - Cable to 500 feet.
缆线到 500 英尺



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