

WIDE RANGE ION CHAMBER AREA MONITOR

宽量程电离室区域监测器

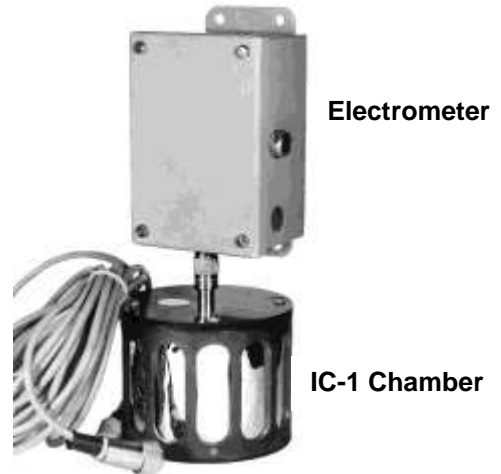
Model ~ FIL-9DP

FEATURES: 特点

- ON-LINE REAL-TIME MONITORING
ALL PLUG-IN MODULAR
在线实时监测，模块式
- BETA, GAMMA DETECTION
 β γ 探测
- LAM-10D ELECTRONICS
LAM-10D 电子学
- RACK MOUNTING OR CASE SINGLE OR
MULTI-CHANNEL
架装或独立外箱或多通道
- ION CHAMBER FOR EXCELLENT ENERGY
RESPONSE
电离室能量响应好
- LOCAL OR REMOTE MONITORING
OPTIONAL: 500 FT. CABLE
本地和远程监测，可到 500 英尺缆线
- HIGH LEVEL ALARM, SOLID STATE, NON-
CONTACTING
上限报警，固态非接触继电器
- RS-232 OUTPUT FOR PRINTER OR PC AND
REMOTE DISPLAY OUTPUTS
接口 RS-232 用于打印、电脑、或远程显示输出
- MICROPROCESSOR BASED DATA
MEASUREMENT AND DISPLAY
微处理数据测量与显示



LAM-10D ELECTRONICS
IP64



FIL-9DP DETECTOR
IP62

APPLICATION: 应用

Area monitor in and around nuclear reactors, hot cells, irradiators and other facilities handling radioactive materials or X-rays.

区域监测器监测核反应堆周边及内部、热室、辐照及其它处理放射性材料或X射线设施。

DESCRIPTION: 描述

The **FIL-9DP** Wide Range Area Radiation Monitor incorporates: 此系统包括:

- Digital Alarm Ratemeter – MODEL ~ LAM-10D 数字报警显示
- Power Supply 电源
- Alarm 报警
- Electrometer & Reliable Ion Chamber. 静电计&可靠的电离室



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Because of the plug-in modular construction, additional channels or functions can be added. Ion Chamber 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.

OPTIONAL: Relay is also closed (or opened) for activation of remote alarms.

OPTIONAL: Stand-by battery power is **optional**

模块式结构允许增加通道或添加功能；电离室电路设计防止系统在高辐射场内读数滑出量程；前板控制允许显示设定点；报警激活前板红色闪灯亮起加刺耳间歇音。

选项：激活远程报警继电器关闭或张开；可选备用电池电源

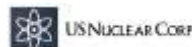
SPECIFICATIONS:

Range:	规格 FIL-9DP: 0.1 - 10,000 mR/h (5 decades) is standard. OPTIONAL: 0.01 mR/h – 1R/h (0.1 μ Sv/h – 10 mSv/h) Range systems offer any 3 or 5 consecutive decades from 0.1 mR/h to 10 R/h.
量程:	标准5量程, 0.1 - 10,000 mR/h
Accuracy:	+/- 10% of decade
精度:	
Detector:	Air equivalent ion chamber. Standard systems use Model IC-2 (for Gamma) or Model IC-1 (for Beta-Gamma). Both models have graphite lined phenolic walls and an active free air volume of 2 liters. Optional high range systems use smaller chambers. Detector is supplied with 8 ft. cable. OPTIONAL: 500 ft. of cable.
探头:	空气电离室, 标准系统使用IC-2 (伽马) 或IC-1 (β - γ), 二者均带石墨里衬, 有效体积2L
Detector Response:	探头响应:
Gamma Energy:	IC-1 is sensitive down to 2 KeV; energy independent (15%) 4 KeV to 6 MeV. IC-2 is sensitive down to 10 KeV; energy independent (15%) 20 KeV to 7 MeV.
伽马能量:	IC-1探测到2KeV,非能量依赖4 KeV -6 MeV; IC-2 到10KEV, 非能量依赖20KeV-7 MeV
Beta Energy:	Sensitive down to 0.15 MeV; energy independent (25%) 0.4 MeV to 7 MeV (IC-1 only).
β 能量:	(只限IC-1), 灵敏度到0.15MeV, 非能量依赖0.4 MeV - 7 MeV (25%)
Environment:	Temperature: Operating range between -30° C and 65° C; Drift less than 0.4% per °C at room temperature. Humidity: 0-95% non-condensing.
环境:	温度: -30° C and 65° C, 室温下漂移小于每度0.4%; 湿度0-95%
ELECTRONICS:	电子学
Model:	LAM-10D OPTIONAL: FM-9W-HUB for central data access from multiple instrument locations LAM-10D, 可选FM-9W-HUB用于多点中心数据提取
Digital Display:	Length = 6 digit rate, 8 digit total dose



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Other meter scale markings are available.

数字显示:	6位数计数率, 8位数总计数, 可选其它显示
Engineering Units:	User can input correct conversion factor and change to any units.
显示单位:	用户输入正确转换因子可改为其它单位
Controls:	Front Panel: On-Off, Alarm-mute, Rate, Integrate, Reset.
控制:	前板: 开-关, 报警-静音, 计数率, 总计数, 重设
Alarm:	2000 Hz audio tone with audio "mute" switch + RED LIGHT, High current relay. 0-100% of full scale.
报警:	带静音开关, 大电流继电器
Serial Output:	Two way RS-232 standard, Ethernet optional.
系列输出:	两路RS-232, 可选以太网
Pulse Output:	Internal 1 volt positive. Other outputs and interfaces are optional.
脉冲输出:	1V正极, 可选其它输出与界面
Batteries:	5 amp-Hour Battery Pack with built-in charger.
电池:	5AMP-小时电池组带内置充电器
Battery Life:	100 Hours in Non Alarm Status 18 Hours in Alarm Status
电池寿命:	非报警状态100小时, 报警状态18小时
Power:	105-125 volts, 50-60 Hz (220 V optional)
电源:	
Mounting:	Wall or table mountable for rack or Nema 4 (hostile environment) cabinet.
Construction:	NEMA-4X polycarbonate gasketed case: rugged and splash-proof.
安装:	壁挂或架装或NEMA4外箱用于恶劣环境, 结实防溅
Weight:	3 lbs. (1.4kg) including batteries and hardware, excluding probe.
重量:	3磅包括电池和硬件, 不含探测器

OPTIONS:

可选

- Multiple Channel Systems. 多道系统
- Solenoid Activated Check Source For System Calibration. 检测源用于系统刻度
- Remote Alarm-Flasher-Howler 远程报警-闪灯
- Remote Meter Readout With Alarm 远程读数器带报警
- Data Archive & Retrieval 数据存储与提取
- Stand By Batteries 备用电池
- Cable To 500 Feet 缆线 500 英尺



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