

MODEL 357

MODEL 357RM LOW COST MONITOR FOR DETECTION AND MEASUREMENT OF AIR BORNE TRITIUM 型号357RM, 低成本监测器, 检测和测量气氚

The model 357 tritium monitor is stable to $1 \mu\text{Ci}/\text{m}^3$. (1 S.D.)
型号357氚监测器对于稳定测量值到 $1 \mu\text{Ci}/\text{m}^3$. (1 S.D.)

Only OTC tritium monitors are designed and built to distinguish tritium against natural radon background. Instruments that do not have this feature will exhibit a noisy zero response even if the electronics is claimed to be stable.

只有OTC公司的氚监测器就区分氚与自然氡本底进行设计与制造, 即使声称电子学稳定, 无此功能的仪器会表现出噪音零点响应。

With radon rejection, the Model 357 ignores Radon and is, therefore, fast, sensitive and accurate. Once adjusted, it is long-term zero stable and, due to special electrometer design, its span calibration is permanently stable.

氡抑制功能, 型号357忽略氡, 因此反应快速、灵敏、准确。由于特别静电计设计, 其量程校准长期稳定, 即一次调整, 长期零点稳定。



These monitors are simplified versions of OTC 300 series monitors which have been in continuous service for twenty years. They come in rack mount configuration and are also suited for table top use.

此款监测器为OTC公司生产的, 连续服务二十年的300系列监测器的简化版本, 为机架构造, 也适合桌面使用。

The only maintenance required for Model 357 is periodic service of the pump and replacement of the dust filter.

对于型号357唯一维护工作为定期泵维护和尘滤网更换

The sensitivity and noise level of Model 357 is superior to current competitive instrumentation by an order of magnitude.

型号357的灵敏度和噪音值优于目前同类仪器一个量级。

OPTIONAL EQUIPMENT AVAILABLE 可供应的设备

Remote Alarm Units	遥控报警装置
Remote Meter Displays	远程显示
Tritium Gas Calibrator	氚气体校准器
Calibration Resistor	校准电阻器
RS232 Output	RS232输出
Logarithmic Output	对数输出
4-20mA Output	4-20mA 输出电流
Plate-Out proof wire grid chamber	防污染丝壁式电离室



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TECHNICAL SPECIFICATIONS 技术规格

MEASUREMENT: 测量	Tritium in Air Concentration 气氛浓度
RANGE: 量程	1 – 19,999 $\mu\text{Ci}/\text{m}^3$
DISPLAY : 显示	Digital Meter, 4½" digit LED 数字显示, 4½"数字LED
ACCURACY 精度	$\pm 10\%$ of reading, $\pm 1 \mu\text{Ci}/\text{m}^3$, whichever is greater 读数 $\pm 10\%$ 或 $\pm 1 \mu\text{Ci}/\text{m}^3$,取其中较大值
STABILITY AND DRIFT LONG TERM 稳定性和长期漂移	$\pm 1 \mu\text{Ci}/\text{m}^3$, ambient temperature $\pm 1 \mu\text{Ci}/\text{m}^3$,环境温度
NOISE 噪音	$\pm 1 \mu\text{Ci}/\text{m}^3$, 2 sigma, with 20 second time constant $\pm 1 \mu\text{Ci}/\text{m}^3$. 2西格玛, 时间常数20秒
GAMMA COMPENSATION 伽马补偿	second ionization chamber of equal volume, coaxially mounted, serves to cancel effects of external gamma fields 同样容量第二电离室, 同轴安装, 用来消除外部伽马场的影响
RESPONSE RATE ELECTRONICS 响应率电子学	two linear time constants 20 seconds for measurements below approximately 80 $\mu\text{Ci}/\text{m}^3$ 3 seconds for measurements above 80 $\mu\text{Ci}/\text{m}^3$ 两个线性常数, 低于约80 $\mu\text{Ci}/\text{m}^3$ 时间常数20秒, 80 $\mu\text{Ci}/\text{m}^3$ 以上约3秒
ALARM SYSTEM 报警系统	single alarm, with set point adjustable from 1 to 1,000 $\mu\text{Ci}/\text{m}^3$ 单报警器, 带可调节预设点从 1 到 1,000 $\mu\text{Ci}/\text{m}^3$
INDICATORS 指示	acoustic signaler, red LED 声音信号器, 红色LED
IONIZATION CHAMBER 电离室	measuring: 1,600 cm^3 测量室1,600 cm^3
VOLUME 容量	total wetted: 2,000 cm^3 总湿容积2,000 cm^3
ION TRAP 离子阱	Kanne Type, coaxial integral Kanne型, 同轴一体
PORTS 接口	hose barb fittings for 3/16" I.D. vinyl tubing 软管倒钩接口适合3/16" 内径乙烯管
FLOWMETER 流量表	0-10 LPM adjustable rotameter 0-10 LPM可调整转子流量计



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DUST FILTER AND PUMP 滤网和泵	High efficiency respirator type cartridge. Long life continuous duty oscillating piston positive displacement pump 高效率的呼吸器式墨盒。耐用持续工作型摆动活塞式正排量泵
ENVIRONMENTAL 温度	Storage Temperature: -40° C to +60° C 存储温度-40° C 到+60° C
Operating Temperature: 工作温度	0° C to +50° C
Humidity: 湿度	0 to 95 % RH non-condensing 相对湿度 0 - 95 % 无冷凝
POWER 电源	115 VAC or 240VAC, 50/60 Hz
PHYSICAL CABINET 机箱	19" rack mount, frame constructed of aluminum extrusions, front and rear panel are 1/8" thick aluminum. Covers are aluminum sheet. 19"机架安装, 铝合金框架, 前后面板框架为1/8英寸厚铝。盖铝板
DIMENSIONS 尺寸	8.8" [223mm] H x 19.0" [483mm] W x 16.0" [406mm] D
WEIGHT 重量	40 lbs. [18.2Kg]
OPTIONS 可选	Plate-out proof chamber design 防污染室设计 Choice of one additional output; 额外输出一条 RS232 Serial Data, 4-20mA or logarithmic Output RS232 串口数据, , 4-20mA 或对数输出



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