

## MODEL 347

### 型号 347

#### MODEL 347

#### LOW COST MONITOR FOR ULTRA SENSITIVE DETECTION OF AIRBORNE RADIOACTIVE GASES QUADRUPLE IONIZATION CHAMBERS FOR BEST GAMMA COMPENSATION

型号 347低成本监测器，用于气溶胶辐射气体超灵敏检测，四电离室提供最佳伽马补偿

A low cost very high sensitivity general purpose monitor for reliable measurements to as low as  $0.5 \mu\text{Ci}/\text{m}^3$  in the presence of significant external gamma fields.

一款低成本高灵敏一般用途的监测器，在显著外部伽马场存在的情况下可靠测量到  $0.5 \mu\text{Ci}/\text{m}^3$

OTC Model 347 tritium monitor will not respond to ambient radon, this instrument is fast, accurate and has long term zero stability.

OTC公司生产的型号347氚监测器不会对环境氡反应，测量快速精确并且长期零点稳定。

This monitor is a simplified, lower cost, version of the 300 series instruments, but with a restricted number of available optional features.

这款监测器是简化了的低成本的300系列仪器里型号，但是还是有几个可选择的的功能。

The quadruple chambers are Kanne type arranged in a cruciform pattern.

四电离室十字排列，Kanne型十字结构。

A separately mounted pump system with HEPA and ULPA filters assures a sample free of particulates.

单独安装的泵系统，带 HEPA 和 ULPA 滤网，确保样品无颗粒。

#### TECHNICAL SPECIFICATIONS 技术规格

MEASUREMENT 测量 Tritium in Air Concentration 气氚浓度

RANGES 量程 single, 0.1 to 1999.9  $\mu\text{Ci}/\text{m}^3$  单量程, 0.1 to 1999.9  $\mu\text{Ci}/\text{m}^3$

DISPLAY 显示 Digital Meter, 4 1/2" digit LED 数字率表, 4 1/2"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 $\pm 1 \mu\text{Ci}/\text{m}^3$ . 取数值较大者

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  $< 1 \mu\text{Ci}/\text{m}^3$ , 2 sigma, with 30 second time constant  $< 1 \mu\text{Ci}/\text{m}^3$ , 2西格玛, 带30秒时间常数

#### OPTIONAL EQUIPMENT AVAILABLE

##### 可选购设备

Remote Alarm Units

遥控报警器

Remote Meter Displays

遥控读数显示

Tritium Gas Calibrator

氚气校准器

Calibration Resistor

校准电阻器

4-20 mA Output

输出4-20 mA

Logarithmic Output

对数输出

RS232 Output

RS232 输出接口



1160 US ROUTE 50  
MILFORD, OHIO 45150-9705  
TELEPHONE (513) 248-2400  
FACSIMILE (513) 248-2402  
E-MAIL sales@overhoff.com  
WEB www.OVERHOFF.com

|   |  |
|---|--|
| <b>GAMMA<br/>COMPENSATION</b><br>伽马补偿         | second ionization chamber pair of equal volumes, mounted in cruciform pattern, serves to cancel effects of external gamma fields<br>容量对等的第二对电离室，十字排列安装，用于抵消外部伽马场影响   |
| <b>RESPONSE RATE<br/>ELECTRONIC</b><br>响应率电子学 | two linear time constants, 30 seconds for <80 $\mu\text{Ci}/\text{m}^3$<br>3 seconds for >80 $\mu\text{Ci}/\text{m}^3$<br>两个线性时间常数，30秒 <80 $\mu\text{Ci}/\text{m}^3$ ，3秒 >80 $\mu\text{Ci}/\text{m}^3$                               |
| <b>WARM-UP TIME</b><br>预热时间                   | less than 5 minutes required for high voltage power supplies to stabilize<br>小于5分钟要求高压电确保稳定  |
| <b>ALARM SYSTEM</b><br>报警系统                   | single alarm, with set point adjustable from 1 to 1000 $\mu\text{Ci}/\text{m}^3$<br>单报警，带调节设定点，1 - 1000 $\mu\text{Ci}/\text{m}^3$  |
| <b>IONIZATION CHAMBER<br/>VOLUME</b><br>电离室容量 | measuring: 2900 $\text{cm}^3$<br>total wetted: 4000 $\text{cm}^3$<br>测量：2900 $\text{cm}^3$ ，总湿量4000 $\text{cm}^3$  |
| <b>ENVIRONMENTAL</b><br>环境                    | Storage Temperature: $-40^\circ\text{C}$ to $+60^\circ\text{C}$<br>Operating Temperature: $0^\circ\text{C}$ to $+50^\circ\text{C}$<br>储存温度 $-40^\circ\text{C}$ to $+60^\circ\text{C}$ ，工作温度 $0^\circ\text{C}$ to $+50^\circ\text{C}$ |
| <b>Humidity:</b><br>湿度                        | 0 to 95 % RH non-condensing<br>0-95% RH，无冷凝  |
| <b>PHYSICAL CABINET</b><br>机柜                 | Bench top, frame constructed of aluminum extrusions, front and rear panel<br>台式，铝合金型材，前后面板框架构建   |
| <b>POWER</b><br>电源                            | 115 VAC or 240 VAC 50/60 Hz<br>115 VAC 或 240 VAC 50/60 Hz  |
| <b>DIMENSIONS</b><br>尺寸                       | 8.8" [223mm] H x 19.0" [483mm] W x 16.0" [406mm] D   |
| <b>WEIGHT</b><br>重量                           | 45 lbs [20.4 kg]   |
| <b>FLOW METER</b><br>流量                       | 0 -10 LPM adjustable rotameter<br>0 -10 LPM可调节转子流量计  |
| <b>DUSTFILTER &amp; PUMP</b><br>过滤器和泵         | separately mounted<br>分开单独安装   |
| <b>POWER</b><br>电源                            | 115 VAC or 240 VAC 50/60 Hz  |
| <b>DIMENSIONS</b><br>尺寸                       | 7.0" [178mm] H x 17.0" [432mm] W x 16.0" [406mm] D<br>高7.0" [178mm] x 宽17.0" [432mm] x 深16.0" [406mm]  |
| <b>WEIGHT</b><br>重量                           | 20 lbs [9.1 kg]<br>20磅 (9.1 千克)  |



1160 US ROUTE 50  
MILFORD, OHIO 45150-9705  
TELEPHONE (513) 248-2400  
FACSIMILE (513) 248-2402  
E-MAIL sales@overhoff.com  
WEB www.OVERHOFF.com