

AIR or STACK MONITOR

NOBLE GAS, GROSS BETA-GAMMA PARTICULATE, & IODINE

空气/烟道监测器-惰性气体、总 $\beta - \gamma$ 及碘

Optional Alpha, Tritium, Carbon-14

可选 α 、氚、C-14

PART OF THE TOTAL-6 SERIES AIR & STACK MONITORS

Model – CAM-33 Series - CAM-33, CAM-33-4, CAM-33-6

FEATURES: 特点

- THREE to SIX CHANNEL SIMULTANEOUS MEASUREMENT OF:
3-6 通道同时测量:
 - BETA-GAMMA PARTICULATE $\beta - \gamma$
 - IODINE 碘
 - NOBLE GAS 惰性气体
 - ALPHA PARTICULATE α 粒子
 - TRITIUM 氚
 - CARBON-14 碳 14
- DETECTORS MORE SENSITIVE BY FACTORS OF 5-500 THAN REQUIRED BY NRC
较核管会要求的灵敏度标准高 5-500 倍
- BUILT-IN 4 GB COMPUTER
内置 4GB 电脑
- 17" COLOR MONITOR 17 寸彩显
- HIGH CAPACITY OIL-LESS AIR PUMP
高效无油气泵
- REAL-TIME FLOW MEASUREMENT
实时流量测量
- DATA ANALYSIS, ARCHIVE
数据分析, 存储
- RUGGED, CASTER OR SKID MOUNTED, SELF-CONTAINED CABINET
结实, 带轮子或底座或一体机柜
OPTIONAL - NRTL CERTIFIED CABINET
可选-NRTL 认证机柜
- IP33



DESCRIPTION: 描述

The **CAM-33 Series** are three to six channel air monitors for simultaneous measuring of Gross Beta / Gamma Particulates, and Noble gaseous radioactivity, and Iodine. The **CAM-33-4** includes Alpha Particulates.

The **CAM-33-6** has six channels for also measuring Alpha Particulates, Tritium, & Carbon-14.

These are continuous duty, high capacity, rugged skid or caster mounted systems. Electronics consists of Computer with **17" COLOR LCD Monitor**.



TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY

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Electronics are plug-in modules allowing change or addition of function as needed and allowing rapid repair by substitution of modules in the field. The modular system is covered by T/A's unique exchange warranty, in addition to the full one year warranty covering all T/A products.

Shields are void free lead encased in welded steel and with stainless steel liners for long, useful life and easy decontamination.

Filters are easily changed via quick disconnect, o-ring sealed filter holder. Shield can be opened for filter change or cleaning with minimum effort. All shield connections and openings are sealed against air leaks. The air moving system is based on a high capacity oil less air pump capable of delivering 120 lpm (4cfm) free air and including Real time flow rate measurement and data analysis.

The entire system is mounted in a self-contained rugged cabinet and comes complete with all cabling, connectors, and software in place, setup, and ready to operate. The standard unit is operated from 120V single phase, 60 Hz; 220V optional, 50 or 60 Hz.

CAM-33 系列 3-6 通道空气监测器同时测量总 β / γ 、惰性气体及碘。CAM-33-4 测量包括 α ，CAM-33-6 为 6 通道，测量包括 α ，氚，碳 14。这些型号均为连续作业，高通量，带轮轴，电子学包括 17 寸彩屏。

插卡式电子学模块允许功能添加与现场快速维修，模块系列除一年质保外还享受TA公司更换保障。无缝铅屏蔽焊接钢外罩及不锈钢衬，寿命长易去污。

过滤装置通过断开带O型圈的托架可快速更换，可容易地打开屏蔽更换过滤器或清洗，所有屏蔽连接处和开口处均密封，高效无油泵气动系统流量120 lpm (4cfm)，包括实时流量测量与数据分析。

整个系统安装在结实一体机柜中，所有缆线，连接件及软件配备齐全，标准设备为单相电120V 60Hz, 可选220v, 50或60Hz

SPECIFICATIONS for CAM-33 SERIES: CAM-33 系列规格

| | CAM-33-2 | CAM-33-3 | CAM-33-4 | CAM-33-6 |
|------------------------------|---|---|---|---|
| Channels 通道 | Two | Three | Four | Six |
| Activity Detected 探测活度 | 1. Gamma Particulate $\beta - \gamma$ 粒子 2. Noble Gas 惰性气体 | 2. Beta-Gamma Particulate $\beta - \gamma$ 粒子 2. Iodine 碘 3. Noble Gas 惰性气体 | 1. Beta-Gamma Particulate $\beta - \gamma$ 2. Iodine 碘 3. Noble Gas 惰性气体 4. Alpha Particulate α | 1. Beta-Gamma Particulate $\beta - \gamma$ 2. Iodine 碘 3. Noble Gas 惰性气体 4. Alpha Particulate α 5. Tritium 氚 6. Carbon-14 碳 14 |



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STANDARD DETECTORS: 标准探测器

| Activity Detected 探测活度 | Gross Beta-Gamma Particulate 总 $\beta - \gamma$ | Iodine 碘 | Noble Gas 惰性气体 |
|--------------------------------------|---|--------------------------------------|-------------------------------------|
| Filters: 过滤器 | 2" dia. | 2.5" dia x 1" thick | One Liter Chamber |
| Filter Type; 过滤器种类 | Glass Fiber Filter | TEDA Activated Charcoal Cartridge | Stainless Steel Lined |
| Collection Efficiency 收集效率 | Up to 99% efficiency at 0.3 micron particle size | 60 KeV to 3 MeV (7 MeV optional) | 60 KeV to 3 MeV (7 MeV optional) |

OPTIONAL DETECTORS: 可选探测器

| Activity Detected | Alpha Particulate | Organic Carbon-14 | Tritium |
|-----------------------|----------------------------|--|--------------------------------|
| Filters 过滤器 | 2" diameter | 2.5" diameter | Dual Ion Chamber 双电离室 |
| Filter Type 类型 | Glass Fiber Filter 玻璃纤维 | TEDA Activated Charcoal Disk 活性炭 | Stainless Steel Lined 不锈钢里衬 |

DETECTORS for CAM-33 Series: CAM-33 系列探测器

- **Particulate Beta-Gamma:** 2" diameter GM or optional Proportional Detector. **(1 each)**
 $\beta - \gamma$ 粒子: 2 寸 GM 管或正比计数管
- **Iodine:** 2" diameter NaI(Tl) Model PGS-3LI (Spectroscopic Grade) **(1 each)**
碘: 直径 2 寸碘化钠, 型号 PGS-3LI
- **Gas Standard Range:** 2 inch diameter GM **(2 each)**
标准气体: 2 寸双 GM 管
- **Shielding:** 3" lead; 4 pi. Plus 1 inch lead placed between adjacent detectors
屏蔽: 3 寸铅, 全角, 相邻探测器间加 1 寸铅屏蔽
- **Detector Sensitivity:** **Monitor is more sensitive on all channels by factors of 5 to 500 than is required by USNRC and other regulatory agencies.**
探测器灵敏度: 较核管会要求的灵敏度标准高 5-500 倍
- **Calibration:** Follow on screen instructions for user assisted automatic calibration.
标定: 按照屏显提示用户可自动标定



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- **Decontamination:** Shields are straight-through bore with Stainless Steel liner for easy decontamination. Other wetted parts are Stainless Steel or quick and easy replacement.

去污: 直入式屏蔽不锈钢里衬易于去污, 其它部件为不锈钢或快速更换部件。

| DETECTOR TYPE 探测器类型 | 1 MINUTE | 1 HOUR | 10 HOURS | 1 DAY | 1 WEEK |
|---|-------------------------------------|---|---|---|--|
| PARTICULATE BETA-GAMMA $\beta - \gamma$ | $6 \times 10^{-10} \mu\text{Ci/ml}$ | $1 \times 10^{-11} \mu\text{Ci/ml}$ $3.7 \times 10^{-7} \text{ Bq/ml}$ | $1 \times 10^{-12} \mu\text{Ci/ml}$ $3.7 \times 10^{-8} \text{ Bq/ml}$ | $6 \times 10^{-13} \mu\text{Ci/ml}$ $2.4 \times 10^{-8} \text{ Bq/ml}$ | $1 \times 10^{-13} \mu\text{Ci/ml}$ $4 \times 10^{-9} \text{ Bq/ml}$ |
| IODINE 碘 | $3 \times 10^{-9} \mu\text{Ci/ml}$ | $1 \times 10^{-11} \mu\text{Ci/ml}$ $3.7 \times 10^{-7} \text{ Bq/ml}$ | $1 \times 10^{-12} \mu\text{Ci/ml}$ $3.7 \times 10^{-8} \text{ Bq/ml}$ | $6 \times 10^{-13} \mu\text{Ci/ml}$ $2.4 \times 10^{-8} \text{ Bq/ml}$ | $1 \times 10^{-13} \mu\text{Ci/ml}$ $4 \times 10^{-9} \text{ Bq/ml}$ |
| GAS-STANDARD RANGE 标准气体 | $6 \times 10^{-7} \mu\text{Ci/ml}$ | $1 \times 10^{-7} \mu\text{Ci/ml}$ $3.7 \times 10^{-3} \text{ Bq/ml}$ | $2.7 \times 10^{-8} \mu\text{Ci/ml}$ $1 \times 10^{-3} \text{ Bq/ml}$ | $1 \times 10^{-8} \mu\text{Ci/ml}$ $3.7 \times 10^{-4} \text{ Bq/ml}$ | $2.7 \times 10^{-9} \mu\text{Ci/ml}$ $1 \times 10^{-4} \text{ Bq/ml}$ |

OPTIONAL DETECTORS:

可选探测器

- **Alpha Particulate**
 α 2" diameter Kapton window GM (1 each)
2 寸 GM 管带薄窗
- **Organic Carbon-14**
有机 C14: 2" diameter Window Mica GM (1 each)
GM 管 2 寸迈拉窗
- **Carbon-14**
C14: 2" diameter CO₂ Dual Ion Chamber (1 each)
双电离室
- **Tritium**
氚: Dual Ion Chamber (1 each)
双电离室



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| Measurement Ranges of Optional Detectors 可选探测器量程 | Bottom of Range 下限 | Top of Range 4 Decade Model 4 量程上限 | Top of Range 6 Decade Model 6 量程上限 |
|---|-----------------------------|--|--|
| Tritium 氚 | 10 ⁻⁷ μCi/cc | 10 ⁻³ μCi/cc | 10 ⁻¹ μCi/cc |
| Inorganic Carbon-14 无机碳 14 | 10 ⁻⁸ μCi/cc | 10 ⁻⁴ μCi/cc | 10 ⁻² μCi/cc |
| Organic Carbon-14 有机碳 14 | 10 ⁻⁹ μCi/cc | 10 ⁻⁵ μCi/cc | 10 ⁻³ μCi/cc |
| Alpha Particulate α 粒子 | 5 x 10 ⁻⁸ μCi/cc | 10 ⁻⁴ μCi/cc | N/A |

Each Detector is Protected Against Corrosion & Moisture by Design, Construction, & 0.0005" Window.

每个探测器具有防腐防潮设计

Display Mode:

Model CAM-33 Series features a Computer with a Color LCD Monitor.

Direct read out in concentration Bq/l or other units.

Daily total activity reads through the CAM-33 in KBq or Curies, etc.

显示模式:

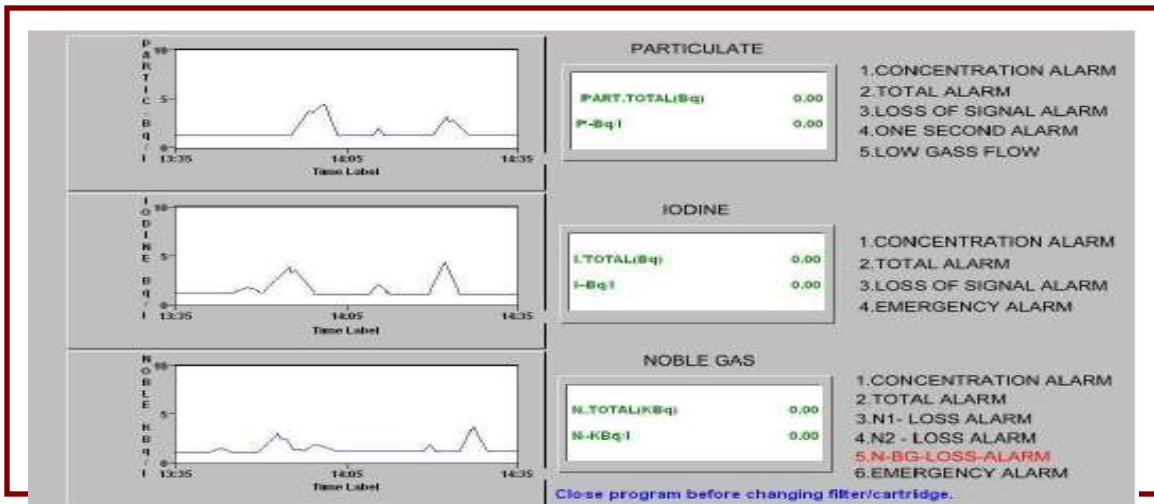
型号CAM-33系列带电脑彩显, 直接读出Bq/l或其它单位, 每日总计数单位KBq或Curies

Operation:

In normal operation the CAM-33 Series, the Color LCD Monitor displays:

操作:

正常操作CAM-33系列, 彩显如下:



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| Airborne Activity | Model | TOTAL-6-TCI (1) | TOTAL-6-TCO (1) | TOTAL-6-TC | CAM-33-1P | CAM-33 | CAM-33-4 | CAM-33-6 |
|-----------------------------------|--|-----------------|-----------------|------------|-----------|--------|----------|-----------|
| | Chemical Form | | | | | | | |
| Tritium H3 | T ₂ , HTO T ₂ O | YES | YES | YES | OP | NO | OP | YES |
| Carbon C-14: Inorganic Organic | CO ₂ Various | YES — | — YES | YES OP | OP | | | OP YES |
| Particulate | Alpha | | | | YES | OP | OP | OP |
| Particulate | Beta | | | | YES | YES | YES | YES |
| Iodine | | | | OP | YES | YES | YES | YES |
| Noble Gas: Gross/All | | | | YES | YES | YES | YES | YES |
| Argon | | | | OP | | | | OP |
| Xenon | | | | OP | | | | OP |
| Krypton | | | | OP | | | | OP |
| Radon | | RX | RX | RX | | | | OP - RX |

Number of Channels: 通道数量

YES = Measures Separately

YES指“单独测量”

RX = Rejects

RX 意思指“抑制”

OP = Optional

OP 指“选项”

NOTE: Models TOTAL-6-TCO & TOTAL-6-TCI work best if no other nuclides are present

注：无其它核素出现情况下型号 TOTAL-6-TCO 和 TOTAL-6-TCI 最合适型号



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| | |
|---------------------------------|---|
| High Voltage Supply: | Separately variable from 0 to 2,000 VDC at 200 μ a on scintillation or proportional channels. |
| 高压电源: | 闪烁或正比计数通道可变电压 0-2,000 VDC 200 μ a |
| LCD Color Monitor: | 17" Monitor shows both real time concentration & accumulated dose for all Channels |
| LCD 彩显: | 所有通道 17 寸彩显显示实时浓度和累计剂量 |
| Accuracy: | +/- 10% except for resolution loss and statistical variation |
| 精度: | +/- 10% |
| Alarms: | Alarms are pre-settable to any trigger level |
| 报警: | 报警预设到任何报警点 |
| Low Level Alarm: | Automatic Reset |
| 下限报警: | 自动重设 |
| High Level Alarm: | High level alarm remains activated until RESET button is pushed |
| 上限报警: | “重置”按钮按下关闭上限报警 |
| Alarm Indication Lights: | 6 Lights Red-high level; Amber-low level count for each channel, plus more indicators shown on LCD Monitor. |
| 报警指示灯: | 6 个指示灯，每个通道红灯上限，琥珀色下限，外加 LCD 显示器上指示灯 |
| Audio: | 1,000 Hz, greater than 80 db |
| 声音报警: | 1,000 赫兹 |
| Outputs: | Alarm Condition Outputs: 1. Logic Level Signal 2. Contact Closure or Opening |
| 输出: | 报警条件输出: 1.逻辑电平信号 2. 继电器关闭/打开 |
| Standard Installation: | Cabinet: heavy gauge steel. Skid or caster mounted 4 five inch ball bearing casters. Two of these are full 360 degree swiveling. |
| 标准安装: | 机箱: 重型钢材料, 托板或轮子 |
| Special Safety: | Loss of system vacuum air flow alarm and relay switch closure. Loss of signal alarm. All system circuits fused. |
| 特殊安全: | 系统气流中断报警, 继电器关闭; 信号丢失报警, 所有系统电路带保险 |
| Power: | 120 VAC – 220 VAC; optional 50/60 Hz |
| 电源: | |
| Features: | Thermal protection on motor. Positive Displacement Pump. |
| 特点: | 发动机热保护 |



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AIR MOVING SYSTEM: 气动系统

| | |
|---------------------------|--|
| Air Pump: | Extremely rugged continuous duty |
| 气泵: | 极其坚固连续运行 |
| Pumping System: | Oil-less Pump noise is reduced by heavy duty internal muffler |
| 泵系统: | 重型内部消音器减少了无油泵噪音 |
| Pump Motor: | 3/4 Horsepower, 50/60Hz capacitor start, induction run |
| 泵马达: | 马力 3/4, 启动电容 50/60Hz, 感应运行 |
| Flow Control: | Flow Regulator Controls the flow from 0-4 cfm, +/- 0.2cfm |
| 流量控制: | 流量调节器控制流量 0-4 cfm, +/- 0.2cfm |
| Settable Flowrate: | On screen Flow Rate Display 0 to 4 or 0-120lpm |
| 可设定流量: | 屏显流量 0 -4 或 0-120lpm |
| Inlet and Outlet: | 20 foot 3/4" hose inlet: 6 meter 2.5 cm I.D 20 foot 1" hose outlet. May be extended |
| 进气与出气: | 20 英尺 3/4" 进气软管: 6 米 2.5 cm 内径, 20 英尺 1 英寸出气管, 可延长 |
| Flow Rate: | Factory setting is at 4 cfm. Mass flowmeter feeds Real-Time data to CAM-33 software. |
| 流量: | 工厂设定 4cfm, 质量流量计实时反馈数据到 CAM-33 软件 |

OPTIONS: 选项

- ❖ Caster or Skid Mount 带万向轮或底盘
- ❖ Grab Sample Port 简单取样口
- ❖ Three push-button Detect & Test sources (License exempt quantities) of the three channels.
3 个按钮检测&3 通道测试源 (免执照量)
- ❖ Flow rate can be increased to 30 cfm with larger pump and minor changes in the plumbing
- ❖ 使用大容量泵管路稍调整流量可增加到 30 cfm

WEIGHT, DEMENSION, SHIPPING: 重量, 尺寸

| | |
|--------------------|---|
| Dimensions: | 29" wide x 31" deep x 41" high - exclusive of casters. |
| 尺寸: | 29" 宽 x 31" 深 x 41" 高 -不包含轮轴 |
| Weight: | 1800 lbs. (Lighter weight model available with 1" shielding. See CAM-33-1P) |
| 重量: | 1800 磅 (较轻型号带 1 寸铅屏, CAM-33-1P) |



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Shipping Weight: 1900 lbs.
邮寄重量: 1900 磅

ELECTRONIC SYSTEM DESCRIPTION: 电子学系统描述

1. CPU with data acquisition
CPU 数据存储
2. High Resolution, 17" LCD Color Monitor Display
高分辨率 17 寸彩色显示
3. Mouse
鼠标
4. 3 Channel 4-20mA Chart Recorder Drive available as option
可选 3 道 4-20mA 图形录入器驱动
5. Keyboard
键盘
6. Audio
音响
7. Manuals
手册
8. 4 GB hard drive - Stores programs, plus room to add additional new software functions in the future
4G 硬盘-存储程序外加新软件拓展功能
9. Non-volatile 1 year data storage. Data stored every 2 minutes all year.
1 年数据存储, 全年数据每 2 分钟存储一次
10. Specialized Air Monitor software custom tuned and designed for the CAM-33 Series Air Monitors.
用户设计 CAM-33 系列专用空气监测器软件
11. Output:
输出
 - ❖ Ethernet LAN Connection
以太网
 - ❖ USB Ports
USB 接口



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OPTIONAL: 可选:

- Graphic Printer for hard copy - 3 trace graphs
图形打印机-3 道

Special Upgrades Incorporated into CAM-33 Series Air Monitors:

CAM-33 系列空气监测器升级功能:

- 17" Color LCD Monitor 17 英寸 LCD 彩屏
- Real-Time Mass Flowmeter 实时质量流量计
- Positive position motor driven check sources with LED position indicator with greater "throw length" to preserve low background when source is retracted and to give trouble free operation.
可选购带 LED 指示器的正位置机动检测源，“抛长”更好，当辐射源撤出时，以保持低本底，并进行无故障运行。

OPTIONS:

- ❖ Shrouded probe or other air collection Nozzels are available
带护罩探头或其它空气收集嘴
- ❖ Touch screen feature on the LCD color monitor
LCD 彩色触摸屏
- ❖ Titanium detector cover
钛探头罩
- ❖ 4-20mA output signals - 3 channels
4-20mA 输出信号 - 3 道
- ❖ 1" Lead (Pb)shields now lighter-weight due to more compact Beta-gamma Detectors (CAM-33-1P)
1 英寸更轻量铅屏因为 β 探测器更紧致 (CAM-33-1P)
- ❖ UPS Battery Back Up - 60 minutes minimum UPS 不间断电源-至少使用 60 分钟
- ❖ Power Stabilizer 电源稳定器
- ❖ Nationally Recognized Testing laboratory (NRTL) certified cabinet
NRTL 认证的机柜
- ❖ Tracking quality assurance of the calibration on a periodic basis
定期跟踪标定情况



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AIR or STACK MONITOR

NOBLE GAS, GROSS BETA-GAMMA PARTICULATE, & IODINE

空气/烟道监测器-惰性气体、总 β - γ 及碘

Optional Alpha, Tritium, Carbon-14

可选 α 、氚、C-14

PART OF THE TOTAL-6 SERIES AIR & STACK MONITORS

Model – CAM-33 Series - CAM-33, CAM-33-4, CAM-33-6

