

CARBON-14, CO₂ PORTABLE AIR MONITOR

C-14, CO₂便携式空气监测器

Model ~ PTG-9-C-14

FEATURES:特点

- USER SETTABLE UNITS - uCi/l or Bq/m³ etc.
- 单位可用户设定-- uCi/l 或 Bq/m³等
- WIDE RANGE - DIGITAL ACCURACY
- 宽量程-数字精度
- PROGRAMMABLE DIGITAL READOUT
- 可编程数字读数
- SENSITIVE FOR OCCUPATIONAL EXPOSURE
- 对职业辐射暴露灵敏
- DYNAMIC BACKGROUND COMPENSATION
- 动态本底补偿
- BATTERY OPERATION OR AC OPERATION
- 电池或AC供电
- BUILT-IN HIGH LEVEL ALARM
- 内置高限报警
- BUILT-IN LOW FLOW ALARM
- 内置低流报警
- BUILT-IN RS-232 COMPUTER INTERFACE
- 内置RS-232电脑接口



DESCRIPTION: 描述

A sensitive, rugged, and portable instrument for detection and measurement of airborne C-14 (¹⁴CO₂).

一款灵敏便携耐用便携式仪器用来检测并测量气载C-14 (¹⁴CO₂).

- The subtractive balanced chamber electrometer circuit decreases background effects to negligible levels.
- 消减平衡室静电计电路将本底影响可以降到可以忽略的程度。
- A deionized and filtered intake reduces to negligible levels spurious effects from smoke, dust and existing ionization in the air.
- 去离子和过滤进气方式将来自烟尘和空气中现存的离子影响虚假影响降到可以忽略的程度
- It is line operated with nominal 20 hour battery back-up.
- 电线供电带正常操作20小时的备用电源
- Optional inlet and outlet hoses allow monitoring interiors of fume hoods, exhaust stacks, etc.
- 可选购进、出气软管以监测通风柜，排烟道等内部。



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US NUCLEAR CORP

OVERHOFF TECHNOLOGY

7051 Eton Ave., Canoga Park, CA 91303

818-883-7043 (Phone) 818-883-6103 (Fax)

tagold@nwc.net

WWW.TECH-ASSOCIATES.COM

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- The PTG-9 –C-14 Will measure airborne C-14 as CO₂ gas or as volatile chemicals in concentrations as low as 1×10^{-3} uCi/l of air (3.7 KBq/m³).
- PTG-9将气载C-14作为CO₂气体或挥发物进行测量，测量空气中浓度低到 1×10^{-3} uCi/l (3.7 KBq/m³).

All instruments are calibrated at the factory. Calibration check may be performed in the field with a microCurie level Beta or Gamma source. Background chamber may be disconnected to check linearity of response on a gamma calibration range. User friendly calibration controls are provided.

所有仪器工厂校正，如有微居标准βγ检测源可进行现场校准，选择γ源校准时本底室可断开以检查线性响应。提供用户友好标定控制过程。

NOTE: For measuring C-14 in other forms, not CO₂, please see the C-14 Air Monitor chart.

注：测量除CO₂以外的其它形式存在的C-14. 请见C-14空气监测器图表

SPECIFICATIONS: 规格

Ranges:	Compact, easy to read digital LCD readout. 1×10^{-3} to 10 uCi/l (3.7 KBq/m ³ to 3.7×10^8 Bq/m ³)
量程:	精致易读LCD数字读数 1×10^{-3} - 10 uCi/l (3.7 KBq/m ³ - 3.7×10^8 Bq/m ³)
Background:	Essentially eliminated by subtractive balanced chambers.
本底:	由消减平衡室完全消除
Smoke, Dust & Ion Elimination:	Filter and deionizer reduce effects to negligible level.
烟雾, 灰尘&离子去除:	过滤器和去离子器将影响降低到可以忽略的水平
Circuit:	Electrometer circuit amplifies net difference between 0.7 liter Tritium internal chamber and a sealed background chamber of similar configuration.
电路:	静电电路放大了0.7升氚内室和具有相似结构的密封本底室间的净差。
Alarms:	Low Air Flow, Alarm High Level Alarm: Red Lamp and Audio Alarm.
报警:	低流量, 高限报警: 红灯和声音报警。
Controls:	Power, Pump On/Off, Battery Check, Set (calibration aid), Zero Adjust, Meter Programming (Two buttons).
控制:	电源, 泵开关, 电池检查, 设定 (校正帮助), 零点调整, 率表程序 (两个钮)
Calibration:	Can calibrate internally with Tritium gas, or on a calibration course, or (at a single point) with optional Beta or Gamma source.
校准:	可内部氚气校正或过程校正, 或可选β或γ源校正 (单点)
Computer Port:	RS-232 serial port is built in (fully addressable).
电脑接口:	RS-232内置接口 (全寻址)



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Model ~ PTG-9-C-14

Portability:	PTG-9 is provided with carrying handle.
便携:	PTG-9带提手
Case:	Deep drawn aluminum case, with handle and gasket lid, easily cleanable anodized finish.
外箱:	深拉铝箱, 带把手和密封盖, 易清理阳极化抛光面
Battery:	9V rechargeable sealed. Battery Life: 20 hours between charges. Battery charger is built-in.
电池:	9V可充电密封电池, 电池寿命: 每充一次电工作20小时, 充电器内置

WEIGHT & DIMENSIONS: 重量&尺寸

Dimensions:	Instrument Case (Including handle): 9"W x 13"L x 9" H.
尺寸:	仪表箱 (包括把手) 9"宽 x 13"长 x 9" 高
	Front Panel: 9" H x 13" Wide.
	前板: 9"高x13" 宽.
Weight:	18 lbs.
重量:	18磅
Shipping Weight:	24 lbs (excluding pre-filter)
装运重量:	24磅 (不含前置过滤器)

Options: 选择

Higher Range
更高量程

Different Readout Units
不同读出单位



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C-14 Air/stack Monitors

Model 型号	G = Gas G表示气体 A= Aerosol A表示气溶胶 P=Particulate P表示粒子	Sensor 传感器	Media 介质	Standard Low Bq/M ³ 标准低限 单位Bq/M ³	Range High Bq/M ³ 高限Bq/M ³	Pre-filter Typical 典型 前置过滤器	Use with Chemical Vapors 同化学汽 体一起使 用
PTG-9-C14	CO ₂ Gas	Dual Ion Chambers	1 Liter Air	3,700	3.7 x 10 ⁷	STD particulate or HEPA Filter	Not Approved 未证实
E-CARB-9	Organic 有机 (A, P) CO ₂ Gas	2" Dia NaI Scintillator 闪烁体 2" Dia GM Mica-window	Charcoal Ascarite Soda-Lime	370	3.7 x 10 ⁶	None Drier	Yes
CAM-TCO	Organic 有机 (A)	2" GM	Charcoal	37	3.7 x 10 ⁵ or 3.7 x 10 ⁷	Particulate	Yes
CAM-TCI	CO ₂ Gas	Dual Ion Chambers	8 liter Air	370	3.7 x 10 ⁶ or 3.7 x 10 ⁸	Particulate HEPA Filter	Not Approved 未证实



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8 liter Air	Organic (A, P)	Dual Ion Chambers	Charcoal	37	As Above	Particulate	Yes
	CO ₂ Gas	2" GM or Silicon	8 liter Air	370	As Above	Various	



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