

HPIC

ENVIRONMENTAL GAMMA MONITORS 环境 γ 监测器

MODEL HPIC 型号 HPIC

ENVIRONMENTAL GAMMA MONITORS 环境伽马监测器

**ULTRA SENSITIVE, WIDE RANGE,
VERSATILE**

极灵敏，宽量程，多功能

Designed around Overhoff Technology Corporation (OTC) proprietary electrometers, these high pressure ionization chamber gamma monitors are far more sensitive, yet physically much smaller than other competing instruments.

Overhoff科技独家设计静电计，这些高压电离室伽马监测器非常灵敏，然而体积上比同类仪器小得多。

SENSITIVITY 灵敏度

The OTC HPIC gamma monitors will detect changes of less than 1% of ambient terrestrial and cosmic radiation, over a wide temperature range. The standard sensitivity version measures as low as $10\mu\text{ R/h}$ [$0.1\mu\text{Sv/h}$]. OTC (Overhoff) 公司的型号为HPIC伽马监测器将在宽温度范围内检测到地球环境和宇宙辐射小于1%的变化。标准型号灵敏度测量值低至 $10\mu\text{ R/h}$ [$0.1\mu\text{Sv/h}$].

RANGES 量程

The auto-ranging electronics has a measurement range up to $4,000\text{ mR/h}$ [40mSv/h] on the standard version. The high sensitivity version is limited to a measurement range up to 400 mR/h [4mSv/h].

标准型号自动量程电子学测量范围达到 $4,000\text{ mR/h}$ [40mSv/h]，高灵敏度型号限于测量到 400 mR/h [4mSv/h].

SIZE 尺寸

The tripod mounted sensor is compact, measuring 7" [178mm] diameter x 14" [356mm] long, excluding power supply module. The total package weighs only 18 lbs [8.2 kg].

三脚架安装传感器精致，测量直径7" [178mm]x长x 14" [356mm]，不包括电源模块。总重量仅重18 lbs [8.2 kg].

ENVIRONMENTAL 环境

The sensor package is waterproof and operates from 0° C to $+50^\circ\text{ C}$ without drift in zero and change in span sensitivity. The sensor is rugged and will withstand moderate shock. 该传感器组件防水，操作温度 0° C to $+50^\circ\text{ C}$ ，无零点漂移和量程灵敏度变化，传感器结实耐用，中等防震。



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REMOTE CAPABILITY 遥控功能

The HPIC can be operated in remote locations without AC line power for up to 24 hours when using a power supply module that is equipped with internal batteries. Additional power supply modules are available as an accessory. Continuous operation is possible by using fully charged modules, rotated on a daily basis. Data can be stored at the site of the HPIC on compact flash memory cards or transmitted in real-time via RF link.

当使用带内置电池的电源模块时，可不用AC线供电情况下使用24小时，HPIC能够远程操作。备用电源模块为配件有供应。通过使用充满电模块每天轮换供电，实现连续作业。数据可现场储存在小巧的闪存卡中，或通过PF连接实时传输。

MEASUREMENT, STANDARD SENSITIVITY VERSION 测量，标准灵敏度型号

MEASUREMENT RANGE: 测量范围:	0-4.0 R/h [0-40 mSv/h] 0-4.0 R/h [0-40 mSv/h]
RESOLUTION AND ACCURACY (SPAN): 分辨率和精度 (量程)	10 μ R/h [0.1 μ Sv/h] 10 μ R/h [0.1 μ Sv/h]
STABILITY AND DRIFT: 稳定性和漂移	better than ± 10 μ R/h (± 0.1 μ Sv/h) 优于 ± 10 μ R/h (± 0.1 μ Sv/h)
DISPLAY: 显示:	Monochrome graphic LCD with backlight 单色图形LCD带背景灯

MEASUREMENT, HIGH SENSITIVITY VERSION 测量，高灵敏度型号

MEASUREMENT RANGE: 测量范围:	0-400 mR/h [0-4 mSv/h] 0-400 mR/h [0-4 mSv/h]
RESOLUTION AND ACCURACY (SPAN): 分辨率和精度 (量程)	1 μ R/h [0.01 μ Sv/h] 1 μ R/h [0.01 μ Sv/h]
STABILITY AND DRIFT : 稳定性和漂移:	better than ± 3 μ R/h (± 0.03 μ Sv/h) 优于 ± 3 μ R/h (± 0.03 μ Sv/h)
DISPLAY: 显示:	Monochrome graphic LCD with backlight 单色图形LCD带背景灯

DATA ACQUISITION

数据采集

COMMUNICATION LINK SOFTWARE

RS232 Serial Transmission 通信连接: RS232串口传输
Terminal Emulation Program 软件: 终端仿真

POWER HPIC POWER

电源
Li-Ion rechargeable battery pack, operates for 8 hrs
HPIC电源: 锂离子可充电电池组, 工作8小时
(full charge). Recharges in 4 hours at 7.5V, 1A
(完全充电), 4小时充电 7.5V, 1A

POWER SUPPLY MODULE

供电模块

Input: 100-240VAC, 50-60Hz
Output: 7.5VDC, 3A max
Internal NiMH battery, 6 cells, 9.5Ah
HPIC will operate for 24 hrs at full charge
recharges in 8 hrs

输入: 100-240VAC, 50-60Hz
输出: 7.5VDC, 3A max
内置NiMH电池, 6节9.5Ah
完全充电HPIC将工作24小时
8小时充电



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ENVIRONMENTAL

TEMPERATURE, HUMIDITY :
温度, 湿度:

环境

0° C to +50° C, 99% RH
0° C to +50° C, 99% RH

ENCLOSURE RATING:
防护等级:

IP64, sealed against dust and water spray
IP64, 密封防尘防水溅

DIMENSIONS AND WEIGHTS 尺寸和重量

SENSOR TUBE:
传感器管: 直径

5" [127mm] Diameter x 12.6" [320mm] Long
直径5" [127mm] x长12.6" [320mm]

SENSOR FRONT PANEL :
传感器前板: 直径

6.6" [168mm] Diameter x 0.5" [12mm] Thick
直径6.6" [168mm] x 厚0.5" [12mm]

TRIPOD MOUNTING PLATE :
三脚架安装板:

25" [635mm] L x 7" [178mm] W x 0.5" [12mm] Thick
25" [635mm] 长 x 7" [178mm] 宽 x 0.5" [12mm] 厚

WEIGHT:
重量:

12.5 lbs [5.7 kg]
12.5 lbs [5.7 kg]

TRIPOD, adjustable height
三脚架, 可调节高度

38" to 63" [96.6cm to 160cm] 9 lbs [4.1 kg]
38" 到 63" [96.6cm - 160cm], 9 磅 [4.1 kg]

POWER SUPPLY MODULE

电源模块:

4.8" [122mm] H x 6.3" [160mm] W x 9.4" [239mm]
L5.5 lbs. [2.5 kg]
4.8" [122mm] 高x 6.3" [160mm] 宽 x 9.4" [239mm] 长
5.5磅 (2.5kg)

OPTIONS: Choose one of the following,
选购: 选择以下其一

RADIO NETWORK
无线电网络

1500ft [450M] up to 20miles [32.2km]
1500英尺[450米] 到 20英里 [32.2km]

LOCAL DATA STORAGE
本地数据存储:

Data recording media; CF card, data capacity; 512M
数据记录显卡, CF卡, 数据容量512M



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