

IONIZATION CHAMBERS

电离室

Model# IC-1

Model# IC-2

DESCRIPTION 描述

The IC-1 and IC-2 ionization chambers are used for detection and measurement of beta and gamma radiation or gamma radiation exclusively. They can be installed in “hot” locations in a laboratory or reactor installations where it is desirable to monitor for control or health and safety purposes.

型号 IC-1 和 IC-2 电离室用来检测和测量 β - γ 辐射或专门检测 γ 。可以安装在实验室“热”地方或任何需要监测以控制或健康安全为目的的反应器的装置上。

Model IC-1 has approximately one-half of the wall area cut away in the form of four windows which are fitted with 0.005” thick mylar. It is sensitive to soft radiation and is used for the detection and measurement of gamma radiation.

型号 IC-1 接近一半的壁区切掉以形成 4 个窗，配有 0.005 “厚的聚酯薄膜。对软辐射敏感用来监测和测量伽马辐射

Each model has an active volume of 2 liters (18.5cm long x 12cm diameter). The overall dimensions are 20cm L x 13cm W x 13cm D. The weight is 3 pounds. The walls of the chamber are made of phenolic. High voltage and ion current connector (UHF style) is located at one end of the chamber. The collector is an aluminum rod with fins to prevent recombination at high fields. Insulators are Teflon. Wall mounting brackets are included.

每个型号升有效容量为 2 升(18.5cm 长 x 12cm 直径).外形尺寸 20cm 长 x 13cm 宽 x 13cm 深. 重量为 3 磅。室壁材质为酚醛树脂。高电压和离子电流的连接器（UHF 样式）位于该室的一端。收集器为带散热片的铝棒以阻止高场辐射复合。绝缘子是特富龙，包括墙壁安装支架。



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Model# IC-2

DETECTOR RESPONSE

探头反应

Gamma Energy:

IC-1 is sensitive Down to 2KeV; energy independent ($\pm 15\%$) 4KeV to 6MeV.

IC-1 敏感值低到 2KeV, 非能量依赖($\pm 15\%$) 4KeV to 6MeV.

IC-2 is sensitive down to 10KeV; energy independent ($\pm 15\%$) 20KeV to 7MeV.

IC-2 敏感值低到 10KeV, 非能量依赖($\pm 15\%$) 20KeV to 7MeV

Beta Energy: Sensitive down to 0.15MeV; energy independent ($\pm 25\%$) 0.4MeV to 7MeV
(IC-1 Only).

β 能量: 敏感值低到 0.15MeV, 非能量依赖($\pm 25\%$) 0.4KeV to 7MeV (仅限 IC-1).

Temperature: Operating range between -30°C and 65°C ; drift less than -0.4% per $^{\circ}\text{C}$ at room temperature. 0-95% humidity non-condensing.

温度: 操作范围在 -30°C 和 65°C 之间; 室温下每摄氏度漂移小于 -0.4% , 湿度 0-95%无冷凝

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