



# P4502 剂量计保持架

## 技术和使用信息

### 使用说明

GEX薄膜剂量计保持架是特别设计以有效控制剂量计在整个读取过程中的位置并最小化从薄膜表面的光反射，他们经精确加工并满足指定的公差要求。

小孔的中心距离保持架的底部8mm，保持架宽12.7mm，厚13.3mm。保持架后部有一个锥形孔，它必须朝向仪器的光源。保持架的后表面是平的需朝向光束发射的方向。用户需小心对中和正确地使用保持架，如果保持架放反了方向，获得的读数将是不精确的。

打开分光光度计上样品室的盖子并将剂量计保持架插入到杯形保持架支架内。保持架需要被完全放到底以保证精确测量。杯形保持架内的弹簧片将剂量计定位到仪器内的恰当的垂直对中的位置，插入时只需要很适度的力道。轻轻的关闭样品室的盖子，不要将剂量计保持架强行压入或呼地关上盖子因为这样会影响灯泡和光探测器的对中并导致仪器失去零位。

每次使用之前和整个使用过程中检查以确认保持架定位正确。请参考GEX程序文件100-251有关操作规程的建议，以考核使用WINdose系统执行剂量测量的人员。

剂量计应该完全平整地平躺而不应该被压入到保持架里，如有必要，可以从剂量计边缘修剪到任何过多的材料。观察剂量计表面是否有肯能影响测量结果的擦伤或凹痕。

### 维护

建议用户观察剂量计保持架和杯形保持架随着使用时间的磨损情况，应该执行日常检查并考虑定期更换。

需要时，使用经过滤的或洁净的空气吹洗以从保持架上和杯形保持架里移除积累的微粒，也可以使用温和的肥皂和水清洗，使用请彻底漂洗和完全弄干。如有必要，使用一个小直径的棉签清洁小孔，按需清洁和更换杯形保持架（零件号#336026-000）。

### 注意：

该GEX保持架专门设计使用在Thermo Electron Corporation Genesys™ 系列单个杯形保持架里 (GEX产品号#P4121)。他们没有在其它仪器上测试过，将这些保持架使用在其它杯形保持架要小心，并需要用户确认P4502保持架和特定的配置。确保保持架可重現地放置和正确的定位，以致保持架的小孔定位在光束点的中心。

联系 GEX 公司以获取帮助，客户设计的剂量计薄膜保持架也可获得。

### Instructions for Use

GEX dosimeter film holders are specially designed to positively control the dosimeter position throughout the readout process and to minimize light scatter from the film surfaces. They are precision machined to specified tolerances.

The center of the aperture is 8.0mm from the bottom of the holder. The holder is 12.7mm across and 13.3mm thick. The back portion of the holder has a conical opening that must face in the direction of the instrument light source. The back surface of the holder is flat and faces away from the beam. Users should be careful to align and use the holder correctly. If the holder is positioned backwards you will obtain inaccurate readings.

Open the sample compartment lid on the spectrophotometer and insert the dosimeter holder into the cuvette holder bracket. The holder needs to be positioned fully down in the cuvette holder for accurate measurements. The spring in the cuvette holder positions the dosimeter holder into the proper vertical alignment within the instrument. Only moderate pressure is required during insertion. Shut the sample compartment lid gently. Do not force the dosimeter holder down too hard or slam the lid as these can jar the alignment of lamp or the light detector and cause the instrument to lose zero.

Check your zero reading before each session and frequently throughout the session to be sure that the holder is positioned properly during use. See GEX procedure 100-251 for a recommended practice for qualifying personnel to perform measurements using the WINdose System.

Dosimeters should lie completely flat and should not be force fit. Trim any excess material from dosimeter edges if necessary. Observe film surfaces for scratches or dents that may affect measurement results.

### Maintenance

Users are advised to observe wear and tear on both the holder and the cuvette (holder bracket) over time. Daily checks should be made and periodic replacements should be considered.

Use filtered or clean air washes to remove particulate build-up from the holder, as well as the cuvette and cup as needed. Wash with mild soap and water. Rinse thoroughly and dry completely before use. If necessary use a small diameter swab to clean the apertures. Routinely clean and replace the cuvette holder (part #336026-000) as needed.



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**CAUTION:**

*This GEX holder was specifically designed for use in a Thermo Electron Corporation Genesys™ series single cuvette holder (GEX Product #P4121). They have not been tested in other instruments. Using these holders in any other cuvette holder or bracket should be done with caution, and requires the user to validate the P4502 holder for use with that particular configuration. Make sure the holder rests reproducibly and positions correctly so that the holder aperture is centered in the beam spot.*

*Contact GEX Corporation for assistance. Custom designed dosimeter film holders are available.*

