• Excellent energy resolution in the 3 to 300 keV range
• Active area from 30 to 1000 mm²
• PopTop flexibility
• Unequaled timing performance
• Detectors larger than 36-mm diameter available
• Available with special feedback resistor for high-rate applications
• POF preamplifier option for superior energy resolution and high count rate at low energies

The ORTEC GLP Series Planar Low-Energy Photon Spectrometer (LEPS) is a small-area, high-purity germanium photon spectrometer for use in applications over the energy range from 3 to ~300 keV.

Available in diameters from 6 to 36 mm, the LEPS offers exceptional energy resolution for low and intermediate energies. At low energies in nuclear structure physics GLP detectors are irreplaceable because of their excellent timing performance (see Table 1).

A cross sectional drawing of a 16-mm LEPS is shown in Figure 1.

The Following Specifications are Provided for Each Model GLP Detector

• Active crystal diameter and depth.
• Energy resolution at 5.9 keV photons from ⁴⁰Ca at optimum shaping time unless the window material prohibits this energy.
• Energy resolution at 122 keV photons from ⁵⁷Co at optimum shaping time.

Configuration Guidelines

PopTop or Streamline (non-PopTop) Configuration

The essence of a PopTop detector system is that the HPGe detector element, preamplifier, and high voltage filter are housed in a detector “capsule” which is then attached to an appropriate cryostat (Figure 2.)

In so called Streamline systems, the detector capsule is NOT demountable. Detector capsule and cryostat share the same vacuum. In configuration terms, this requires a cryostat or cryostat/dewar selection with the cryostat having a matching diameter to the capsule endcap. A cryostat must always be ordered with a Streamline capsule, because they are integral.

The actual PopTop capsule has its own vacuum. It can be mounted on any of the available cryostats or cryostat/dewar combinations.

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The actual PopTop capsule has its own vacuum. It can be mounted on any of the available cryostats or cryostat/dewar combinations.
Steps to Configure Your ORTEC HPGe Detector

1) Configure the Detector Model
   - Capsule type (PopTop or Streamline)
   - Crystal dimensions and specifications
   - Endcap and window
   - Mount
   - Preamplifier
   - Cable Package

Options are available for the detector model that can change specific materials used in the construction of the detector endcap, cup, and mount. Preamplifier options are also available.

2) Configure the Cryostat/Dewar Model
   - Vertical Dipstick style (separate Dewar or Mobius Recycler)
   - Horizontal Dipstick style (separate Dewar or Mobius Recycler)
   - Portable with all-position or multi-position cryostat/dewar models
   - Downlooking designed to be oriented with the detector pointing down
   - Sidelooking designed to be oriented with the detector horizontal at the bottom of the dewar
   - “SJ” configuration designed with the detector attached near the bottom of the dewar and a right angle bend in the cryostat orienting the detector to look up.

A cryostat and dewar or other cooling device are required for operation.

If a PopTop detector has been selected, you can choose a PopTop style cryostat or cryostat/dewar combination.

If a Streamline detector has been selected, you must choose a cryostat or cryostat/dewar model for the detector to be mounted on and vacuum sealed. The cryostat or cryostat/dewar combination diameter must match the endcap diameter of the selected detector.

Detector Options

SMART-1 Option (-SMN)
The SMART-1 option monitors and reports on vital system functions, and can save authentication codes and report the code at a later time. It has the high voltage included, so none of the instruments require an external high-voltage power supply.

The SMART-1 is housed in a rugged ABS molded plastic enclosure and is permanently attached to the detector endcap via a molded-strain-relieved sealed cable. This eliminates the possibility that the detector will suffer severe damage from moisture leaking into high-voltage connectors. The SMART-1 can be positioned in any convenient place and does not interfere with shielding or other mounting hardware.

Defining the Detector Model

<table>
<thead>
<tr>
<th>Base Model (example)</th>
<th>PopTop or Streamline</th>
<th>High Voltage Option (if required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLP-06165/05</td>
<td>P4 (PopTop) (Streamline)</td>
<td>-SMN</td>
</tr>
</tbody>
</table>
Streamline Detector Capsule

PopTop Detector Capsule
Streamline Cryostat and Cryostat/Dewar Assemblies

Streamline systems (detector capsule and cryostat) share the same vacuum, requiring a cryostat or cryostat/dewar selection with the cryostat having a matching diameter to the capsule endcap.

- Standard Cryostat uses Molecular Sieve Pumping Agent.
- Diameter must match Endcap Diameter - 70

<table>
<thead>
<tr>
<th>Model</th>
<th>Standard Dewars</th>
<th>Optional Dewars</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG-LP-GG</td>
<td>DWR-1.2G, 3.6G, 5.9G, MOD-3L, MOD-7L or 0.7-SHP-1</td>
<td></td>
</tr>
<tr>
<td>CFG-LP-SV</td>
<td>DWR-7.5B, 13B, 30B, and MOBIOUS-B</td>
<td>DWR-30, DWR-30-OP and MOBIOUS-ST</td>
</tr>
<tr>
<td>CFG-LP-SD</td>
<td>DWR-7.5B, 13B, 30B, and MOBIOUS-B</td>
<td></td>
</tr>
<tr>
<td>CFG-LP-SJ</td>
<td>DWR-7.5B, 13B, 30B, and MOBIOUS-B</td>
<td></td>
</tr>
<tr>
<td>CFG-LP-SL</td>
<td>DWR-7.5B, 13B, 30B, and MOBIOUS-B</td>
<td></td>
</tr>
<tr>
<td>CFG-LP-SH</td>
<td>DWR-7.5B, 13B, 30B, and MOBIOUS-B</td>
<td></td>
</tr>
</tbody>
</table>
PopTop and Streamline Dimensional Data

Streamline systems (detector capsule and cryostat) share the same vacuum, requiring a cryostat or cryostat/dewar selection with the cryostat having a matching diameter to the capsule endcap. A cryostat must be ordered with a Streamline capsule.

The PopTop capsule features an internal vacuum arrangement. It can be mounted on any of the available PopTop cryostats or cryostat/dewar combinations. The cryostat and dewar drawings that follow are to be used in conjunction with the accompanying tables of dimensions.

Note: Cryostat/Dewar drawings are NOT to scale, see tables that follow for complete dimensions. Dimensions are for reference only and subject to change, if dimensional constraints are critical, contact the factory.
GLP Series Planar HPGe Low-Energy Detector
Product Configuration Guide

Note: Cryostat/Dewar drawings are NOT to scale, see tables that follow for complete dimensions. Dimensions are for reference only and subject to change, if dimensional constraints are critical, contact the factory.

CFG-PH4, DWR-30

CFG-PH4, MOBIUS-PT

CFG-LP-SJ, DWR-30B (or -13B or -7.5B)

CFG-LP-SJ, MOBIUS-B

CFG-PS4-30 (or -13 or -7.5) or CFG-LP-SL, DWR-30B (or -13B or -7.5B)

CFG-PS4-MOBIUS-B or CFG-LP-SL, MOBIUS-B
Note: Cryostat/Dewar drawings are NOT to scale, see tables that follow for complete dimensions. Dimensions are for reference only and subject to change, if dimensional constraints are critical, contact the factory.

CFG-LP-SH, DWR-30-OP

CFG-PH4, DWR-30-OP

CFG-PD4-30 (or -13 or -7.5) or
CFG-LP-SD, DWR-30D (or -13D or -7.5D)

CFG-PHSP4 or
CFG-LP-GG, DWR-0.7-SHP-1
GLP Series Planar HPGe Low-Energy Detector
Product Configuration Guide

Note: Cryostat/Dewar drawings are NOT to scale, see tables that follow for complete dimensions. Dimensions are for reference only and subject to change, if dimensional constraints are critical, contact the factory.

GLP Detector Dimensions

- Dimensions are for reference only and subject to change.
- If dimensional constraints are critical, contact the factory.

<table>
<thead>
<tr>
<th>Dim.</th>
<th>Unit</th>
<th>Tol.</th>
<th>PopTop</th>
<th>Streamline</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>mm (in)</td>
<td>0.3 (0.01)</td>
<td>70 (2.75)</td>
<td>70 (2.75)</td>
</tr>
<tr>
<td>B</td>
<td>mm (in)</td>
<td>0.3 (0.01)</td>
<td>75 (2.95)</td>
<td>75 (2.95)</td>
</tr>
<tr>
<td>C</td>
<td>mm (in)</td>
<td>5 (0.2)</td>
<td>135 (5.3)</td>
<td>71 (2.8)</td>
</tr>
<tr>
<td>D</td>
<td>mm (in)</td>
<td>8 (0.3)</td>
<td>250 (9.8)</td>
<td>182 (7.2)</td>
</tr>
<tr>
<td>E</td>
<td>mm (in)</td>
<td>8 (0.3)</td>
<td>947 (37.3)</td>
<td>854 (33.6)</td>
</tr>
<tr>
<td>EM</td>
<td>mm (in)</td>
<td>9 (0.35)</td>
<td>948 (37.3)</td>
<td>855 (33.7)</td>
</tr>
<tr>
<td>F</td>
<td>mm (in)</td>
<td>18 (0.7)</td>
<td>396 (15.6)</td>
<td>305 (12.0)</td>
</tr>
<tr>
<td>J</td>
<td>mm (in)</td>
<td>10 (0.4)</td>
<td>X</td>
<td>318 (12.5)</td>
</tr>
<tr>
<td>L</td>
<td>mm (in)</td>
<td>18 (0.7)</td>
<td>338 (13.3)</td>
<td>274 (10.8)</td>
</tr>
<tr>
<td>M</td>
<td>mm (in)</td>
<td>10 (0.4)</td>
<td>790 (31.1)</td>
<td>X</td>
</tr>
<tr>
<td>N</td>
<td>mm (in)</td>
<td>6 (0.3)</td>
<td>278 (10.9)</td>
<td>215 (8.5)</td>
</tr>
</tbody>
</table>
GLP Series Planar HPGe Low-Energy Detector
Product Configuration Guide

Note: Cryostat/Dewar drawings are NOT to scale, see tables that follow for complete dimensions. Dimensions are for reference only and subject to change, if dimensional constraints are critical, contact the factory.

### Gamma Gage and Side-Looking Dewar Dimensions

- Dimensions are for reference only and subject to change.
- If dimensional constraints are critical, contact the factory.

<table>
<thead>
<tr>
<th>Dim.</th>
<th>UNIT</th>
<th>TOL. ±</th>
<th>1.2L</th>
<th>3L</th>
<th>5L</th>
<th>3L</th>
<th>7L</th>
<th>7.5L</th>
<th>13L</th>
<th>30L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q</td>
<td>mm</td>
<td>13 (0.5)</td>
<td>229</td>
<td>302</td>
<td>302</td>
<td>229</td>
<td>302</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>S</td>
<td>mm</td>
<td>7.6 (0.3)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>77</td>
<td>77</td>
</tr>
<tr>
<td>T</td>
<td>mm</td>
<td>5 (0.2)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Y</td>
<td>mm</td>
<td>13 (0.5)</td>
<td>157</td>
<td>229</td>
<td>229</td>
<td>157</td>
<td>229</td>
<td>224</td>
<td>307</td>
<td>442</td>
</tr>
<tr>
<td>Z</td>
<td>mm</td>
<td>5 (0.2)</td>
<td>229</td>
<td>267</td>
<td>419</td>
<td>292</td>
<td>320</td>
<td>452</td>
<td>429</td>
<td>610</td>
</tr>
</tbody>
</table>

- Dimensions are for reference only and subject to change if dimensional constraints are critical, contact the factory.
# GLP Series Planar HPGe Low-Energy Detector
## Product Configuration Guide

### Example Model Numbers

#### Streamline Configuration

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLP-06165/05</td>
<td>6-mm diameter, 5-mm deep GLP planar detector with 70-mm diameter endcap.</td>
</tr>
<tr>
<td>CFG-LP-GG-70</td>
<td>Portable Gamma Gage cryostat with matching 70-mm diameter flange.</td>
</tr>
<tr>
<td>DWR-1.2G</td>
<td>1.2 liter all-position dewar for Gamma Gage cryostat.</td>
</tr>
<tr>
<td>GLP-36385/10</td>
<td>36-mm diameter, 10-mm deep GLP detector with 70-mm diameter endcap.</td>
</tr>
<tr>
<td>CFG-LP-SD-70</td>
<td>Downlooking cryostat with matching 70-mm diameter flange.</td>
</tr>
<tr>
<td>DWR-7.5D</td>
<td>7.5 Liter downlooking dewar for downlooking cryostat.</td>
</tr>
<tr>
<td>GLP-16195/10-SMN</td>
<td>16-mm diameter, 10-mm deep GLP detector with 70-mm diameter endcap and SMART-1 preamplifier and high voltage supply.</td>
</tr>
<tr>
<td>CFG-LP-SV-70</td>
<td>Vertical “dipstick” style cryostat with matching 70-mm diameter flange.</td>
</tr>
<tr>
<td>DWR-30</td>
<td>30 liter top port dewar that accepts “dipstick” style cryostats.</td>
</tr>
</tbody>
</table>

#### PopTop Configuration

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLP-36360/13P4-SMN</td>
<td>36-mm diameter, 13-mm deep GLP detector with 70-mm diameter endcap and SMART-1 preamplifier and high voltage supply.</td>
</tr>
<tr>
<td>CFG-PG-3</td>
<td>Portable Gamma Gage cryostat with 3 liter all-position dewar.</td>
</tr>
<tr>
<td>GLP-10180/07P4</td>
<td>10-mm diameter, 7-mm deep GLP detector with 70-mm diameter endcap.</td>
</tr>
<tr>
<td>CFG-PD4-7.5</td>
<td>Downlooking cryostat with 7.5 liter dewar.</td>
</tr>
<tr>
<td>GLP-06165/05P4</td>
<td>6-mm diameter, 5-mm deep GLP planar detector with 70-mm diameter endcap.</td>
</tr>
<tr>
<td>CFG-PH4</td>
<td>Horizontal Dipstick type cryostat.</td>
</tr>
<tr>
<td>MOBIUS-PT</td>
<td>Möbius Recycler.</td>
</tr>
</tbody>
</table>
Ordering Information
• For Streamline, remove the “P4” from the model number.
• If dimensional considerations are critical, contact factory.
• Cryostat and dewar or other cooling device are not included with detector.
• Cryostat and dewar or other cooling device are required for operation.
• A cryostat must be ordered with a Streamline detector.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Active Diameter (mm)</th>
<th>Dimensions</th>
<th>Energy Resolution FWHM</th>
<th>Endcap Diameter (mm)</th>
<th>Be Window Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Area (mm²)</td>
<td>Depth (mm) @5.9 keV (eV)</td>
<td>@122 keV (eV)</td>
<td></td>
</tr>
<tr>
<td>GLP-06165/05P4</td>
<td>≤6</td>
<td>≤28</td>
<td>≤5</td>
<td>≤165</td>
<td>≤480</td>
</tr>
<tr>
<td>GLP-10180/07P4</td>
<td>10</td>
<td>80</td>
<td>7</td>
<td>180</td>
<td>485</td>
</tr>
<tr>
<td>GLP-16195/10P4</td>
<td>16</td>
<td>200</td>
<td>10</td>
<td>205</td>
<td>525</td>
</tr>
<tr>
<td>GLP-25325/10P4</td>
<td>25</td>
<td>500</td>
<td>10</td>
<td>325</td>
<td>550</td>
</tr>
<tr>
<td>GLP-25300/13P4</td>
<td>25</td>
<td>500</td>
<td>13</td>
<td>300</td>
<td>545</td>
</tr>
<tr>
<td>GLP-32355/10P4</td>
<td>32</td>
<td>800</td>
<td>10</td>
<td>355</td>
<td>580</td>
</tr>
<tr>
<td>GLP-32340/13P4</td>
<td>32</td>
<td>800</td>
<td>13</td>
<td>340</td>
<td>570</td>
</tr>
<tr>
<td>GLP-36385/10P4</td>
<td>36</td>
<td>1000</td>
<td>10</td>
<td>385</td>
<td>595</td>
</tr>
<tr>
<td>GLP-36360/13P4</td>
<td>36</td>
<td>1000</td>
<td>13</td>
<td>360</td>
<td>585</td>
</tr>
</tbody>
</table>

GLP Detector Options
- SMN SMART-1 detector option for negative bias detector, add “-SMN” to the model number.

GLP PopTop Cryostats and Dewars

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG-PD4-7.5</td>
<td>Down-looking Cryostat with 7.5-liter Dewar</td>
</tr>
<tr>
<td>CFG-PD4-13</td>
<td>Down-looking Cryostat with 13-liter Dewar</td>
</tr>
<tr>
<td>CFG-PD4-30</td>
<td>Down-looking Cryostat with 30-liter Dewar</td>
</tr>
<tr>
<td>CFG-PG4-1.2</td>
<td>Gamma Gage Cryostat with 1.2-liter Dewar</td>
</tr>
<tr>
<td>CFG-PG4-3</td>
<td>Gamma Gage Cryostat with 3-liter Dewar</td>
</tr>
<tr>
<td>CFG-PG4-5</td>
<td>Gamma Gage Cryostat with 5-liter Dewar</td>
</tr>
<tr>
<td>CFG-PH4</td>
<td>Horizontal Cryostat (Dipstick type). Choose DWR-30, DWR-30-OP, MOBIUS-PT or MOBIUS-PT-DET.</td>
</tr>
<tr>
<td>CFG-PMOD4-3</td>
<td>Gamma Gage Cryostat with 3-liter Multi-Orientation Dewar</td>
</tr>
<tr>
<td>CFG-PMOD4-7</td>
<td>Gamma Gage Cryostat with 7-liter Multi-Orientation Dewar</td>
</tr>
<tr>
<td>CFG-PS4-7.5</td>
<td>Side-Looking Cryostat with 7.5-liter Dewar</td>
</tr>
<tr>
<td>CFG-PS4-13</td>
<td>Side-Looking Cryostat with 13-liter Dewar</td>
</tr>
<tr>
<td>CFG-PS4-30</td>
<td>Side-Looking Cryostat with 30-liter Dewar</td>
</tr>
<tr>
<td>CFG-PS4-MOBIUS-B</td>
<td>Side-Looking Cryostat with Möbius Recycler 28-liter Dewar</td>
</tr>
<tr>
<td>CFG-PS4-MOBIUS-B-DET</td>
<td>Side-Looking Cryostat with Möbius Recycler 28-liter Dewar for purchase in combination with PopTop detector.</td>
</tr>
<tr>
<td>CFG-PSHP4</td>
<td>Down-Looking Shallow-Hole Probe with 0.7-liter Dewar</td>
</tr>
<tr>
<td>CFG-PV4</td>
<td>Vertical Cryostat (Dipstick type). Choose DWR-30, DWR-30-OP, MOBIUS-PT or MOBIUS-PT-DET.</td>
</tr>
<tr>
<td>MOBIUS-PT</td>
<td>Möbius Recycler.</td>
</tr>
<tr>
<td>MOBIUS-PT-DET</td>
<td>Möbius Recycler 28-liter Dewar for purchase in combination with PopTop detector and vertical or horizontal dipstick cryostat.</td>
</tr>
<tr>
<td>DWR-30</td>
<td>30-liter Dewar</td>
</tr>
<tr>
<td>DWR-30-OP</td>
<td>30-liter Offset-Port Dewar</td>
</tr>
<tr>
<td>DWR-S/F</td>
<td>Storage Fill Dewar for CFG-PG4-X</td>
</tr>
</tbody>
</table>
GLP Streamline Cryostats

- Dewar required. Select dewar from GLP Streamline Dewars.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG-LP-GG-70</td>
<td>Gamma Gage Cryostat</td>
</tr>
<tr>
<td>CFG-LP-SD-70</td>
<td>Down-Looking Cryostat</td>
</tr>
<tr>
<td>CFG-LP-SH-70</td>
<td>Horizontal Cryostat (Dipstick type).</td>
</tr>
<tr>
<td>CFG-LP-SJ-70</td>
<td>J-type Cryostat</td>
</tr>
<tr>
<td>CFG-LP-SL-70</td>
<td>Side-Looking Cryostat</td>
</tr>
<tr>
<td>CFG-LP-SV-70</td>
<td>Vertical Cryostat with (Dipstick type).</td>
</tr>
</tbody>
</table>

GLP Streamline Dewars

<table>
<thead>
<tr>
<th>For Cryostat</th>
<th>Choose</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFG-LP-GG</td>
<td>DWR-1.2G</td>
<td>1.2-liter All-Orientation Dewar</td>
</tr>
<tr>
<td></td>
<td>DWR-3.0G</td>
<td>3.0-liter All-Orientation Dewar</td>
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