SpectromagPT
Magneto-optical Cryofree® superconducting magnet system
**SpectromagPT Platform**

**Features / Benefits**

**SpectromagPT** is a split pair, horizontal field magneto-optical Cryofree superconducting magnet system. It provides optical access to a sample in a variable magnetic field and low-temperature environment.

- 7 T magnetic field in a compact geometry
- Experimental inserts suit many applications
- The sample can be quickly changed via a top-loading probe while the system is cold. No need for a complicated load-lock mechanism.
- Sealed circulation loop reduces the risk of contamination and blockages, increasing the continuous running period of this system
- Excellent optical access in the horizontal plane (both parallel and perpendicular to the magnetic field)

**Magneto-Optical Effects**

Enables investigations of Faraday effect, magneto circular dichroism and other high field optical effects.

**Spectroscopy**

Combining high magnetic fields with optical access for Raman magneto-spectroscopy and photoluminescence.

**Photonics**

Characterisation of quantum dots and nano-devices for photonic applications.

**Applications**
Key Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature range</strong></td>
<td>1.6 K to 300 K</td>
</tr>
<tr>
<td><strong>Standard sample probe temperature stability</strong></td>
<td>± 0.1 K</td>
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<tr>
<td><strong>System cooldown</strong></td>
<td>~ 40 hours from room temperature to 4 K</td>
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<tr>
<td><strong>Standard sample probe cooldown</strong></td>
<td>~ 90 minutes from room temperature to &lt; 2 K</td>
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<tr>
<td><strong>Magnetic field</strong></td>
<td>≤ 60 minutes</td>
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<tr>
<td><strong>Variable temperature insert sample space diameter</strong></td>
<td>30 mm nominal</td>
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Service Support

Our support to you
Because Oxford Instruments is unique in designing and manufacturing the complete system, we offer unrivalled support and expertise for your SpectromagPT system through our regional Customer Support teams backed by unmatched factory expertise.

Related Products

**MercuryiTC**
Cryogenic programmable intelligent temperature controller.

**MercuryiPS**
Superconducting intelligent magnet power supply.

**Nanonis Tramea**
Fully integrated measurement ready solution for quantum transport.

**Sample Protect**
Protect sensitive samples from electrostatic discharge.

Visit [https://nanoscience.oxinst.com/products/spectromagpt](https://nanoscience.oxinst.com/products/spectromagpt) or email nanoscience@oxinst.com

Main service locations: UK, USA, Germany, China, Japan and India
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