

Teslatron™PT

The magnet is only the beginning



TeslatronPT – the **Cryofree®** measurement platform

- **Flexible** – a wide range of experimental inserts to suit many applications
- **Configurable** – match the system capability to suit your needs and budget
- **Powerful** – get millikelvin temperature in your standard system
- **Upgradeable** – start with a simple system and add extra capability as your experiments evolve



Why choose **TeslatronPT**?

Whatever your experimental need for variable magnetic field and temperature is, **TeslatronPT** – the **Cryofree** integrated magnet system has the solution. The wide range of different experimental inserts enables you to configure your measurement platform for cutting-edge applications, such as 2D materials, nano-structures and superconducting devices.

Unique system features, by design:

- Wide range of standard magnets with fields up to 14 T (up to 18 T available on request) in a compact geometry
- High grade, low hysteresis loss Nb_3Sn superconducting wire to offer the minimum field hysteresis via remnant field, and minimised low field flux jumping
- Integrated variable temperature insert providing sample temperatures between 1.5 and 300 K
 - Protects your sensitive samples from gas flow with static exchange gas cooling
 - Blockage-free operations using a sealed circulation loop separate to the sample exchange gas

Insert features and options:

- Wide range of high performance sample rods with height adjustment and rotation options
- Select from different options for DC and RF wiring to the sample
- Special rotation probes for graphene research with sample in vacuum and 400 K upper temperature
- Extend the base temperature range to < 300 mK with the **HelioxVT** ^3He refrigerator
- The **KelvinoxJT** dilution refrigerator provides a fully cryogen free system with a temperature range of <25 mK to 300 K

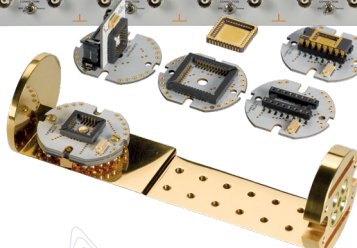
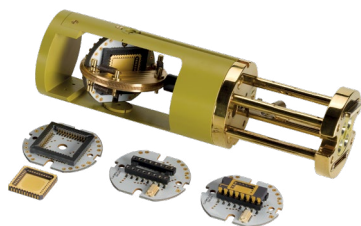


MercuryiTC temperature controller and **MercuryiPS** magnet power supply

- Optimised for integration with the **TeslatronPT**
- Intuitive touch screen interfaces and remote software control allowing direct and remote control of your **TeslatronPT** system
- The **MercuryiTC** programmable temperature controller has the best-in-class measurement capability via constant voltage excitation
- The **MercuryiPS** features a bi-polar, high-stability, four quadrant power supply and on board temperature sensing for diagnostic monitoring of magnet temperature
- Connectivity and control via multiple remote interfaces

Our support to you

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



Visit www.oxinst.com/teslatronpt or email nanoscience@oxinst.com

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

© Oxford Instruments Nanotechnology Tools Ltd, 2018.
All rights reserved.



The Business of Science®