TeslatronPT ™

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, **Teslatron**PT – 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
- Fine filament Nb_3Sn superconducting wire offers the minimum field hysteresis via remnant field, and reduces flux jumping at low fields
- Integrated variable temperature insert providing sample temperatures between 1.5 and 300 K

MercuryiTC temperature controller and **Mercury**iPS magnet power supply

- Optimised for integration with the **Teslatron**PT
- Intuitive touch screen interfaces and remote software control allowing direct and remote control of your **Teslatron**PT system
- The **Mercury**iTC programmable temperature controller has the best-in-class measurement capability via constant voltage excitation
- The **Mercury**iPS 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

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 **Heliox**VT ^{3}He refrigerator
- The **Kelvinox**JT dilution refrigerator provides a fully cryogen free system with a temperature range of < 25 mK to 300 K

Our support to you

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

Visit **nanoscience.oxinst.com** or email **nanoscience@oxinst.com**

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

OXFORD INSTRUMENTS