Lake Shore CRYOTRONICS
a DwyerOmega brand



Fully Guarded Hall Insert

for Measurement Integration with Quantum Design PPMS®

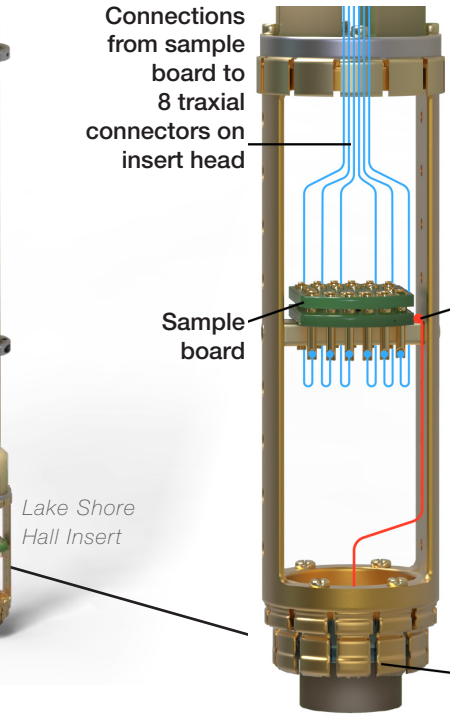
Lake Shore in collaboration with Quantum Design has created a Hall Insert that seamlessly integrates into a PPMS. This insert provides a fully guarded signal path to the sample—ideal for ultra-low noise measurements—plus the ability to measure resistances up to 200 GΩ when paired with a MeasureReady® M91-HR FastHall™ measurement controller.

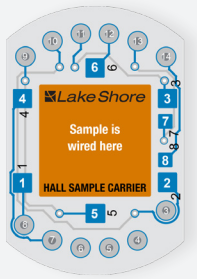
Specifications summary

Triaxial center conductor leakage current: <500 fA at 10 V
Maximum current per pin: 100 mA
Maximum voltage between any 2 pins and insert body: 50 V
Operating temperature range: 1.8 K to 400 K

Hall Insert Connections

When the insert is loaded into the PPMS, the sample connections are fully guarded up to 8 traxial connectors. The integrated Cernox® sensor connections go to the PPMS, enabling temperature readings directly through MultiView™.





Lake Shore Sample Board

Samples mount to consumable Lake Shore sample carrier boards (also pin compatible with Quantum Design sample carrier boards) that snap into the insert. Sample boards sold separately.



For more information, contact sales@lakeshore.com