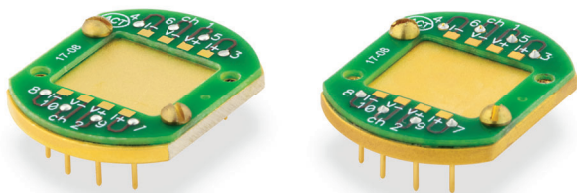


Several existing PPMS measurement options have been adapted to operate at sub-Kelvin temperatures in the various refrigerators offered. In some cases, additional hardware and/or electronics may be required for full compatibility, and the associated specifications are modified accordingly.

AC Resistance, DC Resistance [ADR, Helium-3, DR]



DR (left) and Helium-3 (right) Transport Pucks for use with either Resistivity or ETO

Sub-Kelvin Measurements Specifications (for Zero Field)

AC Resistance, DC Resistance [ADR, Helium-3, DR]

Identical to standard specifications except:

Current Amplitude Range: Maximum available current may be further limited by sample resistance and available cooling power, or desired drift rate in the case of the ADR.

Operational Range: 0.1 to 300 K; 0 T (ADR)
0.4 to 350 K; 0 to 16 T (³He)
0.05 to 4 K; 0 to 16 T (DR)

Heat Capacity [Helium-3, DR]

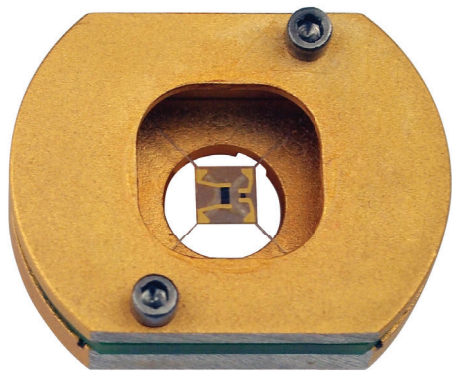
Identical to standard specifications except:

Typical Addenda Magnitude: 2.5 nJ/K @ 0.05 K, 225 nJ/K @ 2 K,
1.5 μJ/K @ 4 K; (DR)
10 nJ/K @ 0.4 K, 2.25 μJ/K @ 4 K,
340 μJ/K @ 35 K, 11 mJ/K @ 350 K; (³He)

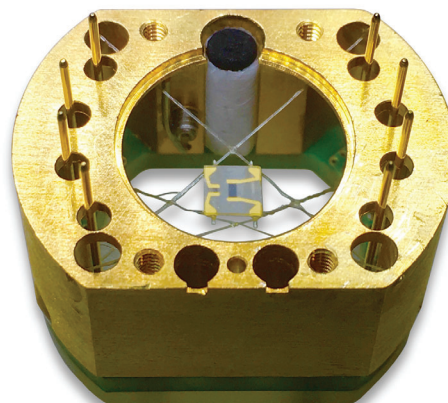
Operational Range: 0.4 to 350 K; 0 to 16 T (³He)
0.05 to 4 K; 0 to 16 T (DR)

Specifications are subject to change without notice.

Heat Capacity [Helium-3, DR]



Dilution Refrigerator / Helium-3
2D Heat Capacity Puck



Dilution Refrigerator
3D Heat Capacity Puck
(DynaCool only)