atto3DR

Technical Specifications

General Specifications	
type of instrument	transport measurement module for angledependent magneto-resistance measurements
sensor head specifics	2 combined rotators with eucentric rotation*
Sample Positioning	
total travel range	full 3D sphere via ±90° for both closed loop rotators (reserve
step size	approx. 1 m° @ 300 K, 0.5 m° @ 4 K
fine scan range	40 m° @ 300 K, 6 m° @ 4 K (scan resolution
sample holder	ASH/CC/20 fits 20 pin LCCC, connected to 20 wires as twisted pairs, max. sample size 4.9 mm x 4.9 mm (others on request)
Suitable Operating Conditions	
temperature range	1.5 K..300 K (dependent on cryostat); mK compatible setup available on request
magnetic field range	0..15 T+ (dependent on magnet)
operating pressure	designed for He exchange gas
Suitable Cooling Systems	
bore size requirement	designed for a 2" (50.8 mm) cryostat/magnet bore
compatible cryostats	attoDRY 2100, attoLIQUID2000
Compatibility with Electronics	
scan controller and software	ANC350 (for detailed specifications please see attoCONTROL section)
Options and Upgrades	
sample holder upgrade	ASH/CC/24 fits 28 pin LCCC, connected to 24 wires as twisted pairs, max. sample size 7.8 mm x 7.8 mm or ASH/CC/28 fits 32 pin LCCC, connected to 28 wires as twisted pairs, max. sample size 6.7 mm x 6.7 mm