

## Technical Specifications

General Specifications	
type of instrument	transport measurement module for angle-dependent magneto-resistance measurements
sensor head specifics	2 combined rotators (theta/phi) with eucentric rotation around the center of magnetic field
Sample Positioning	
total travel range	full 3D sphere via $\pm 90^\circ$ for both closed loop rotators (reserve: $\pm 10^\circ$ )
step size	approx. $1 \text{ m}^\circ$ @ 300 K, $0.5 \text{ m}^\circ$ @ 4 K
fine scan range	$40 \text{ m}^\circ$ @ 300 K, $6 \text{ m}^\circ$ @ 4 K (scan resolution: $\mu^\circ$ )
sensor resolution	approx. $6 \text{ m}^\circ$
repeatability	approx. $50 \text{ m}^\circ$
linearity	approx. 1%
sample holder	ASH/CC/20 fits 20 pin LCCC, connected to 20 wires as twisted pairs
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	
compatible cryostats	attoDRY2100, attoLIQUID2000
bore size requirement	designed for a 2" (50.8 mm) cryostat/magnet bore
Compatibility	
scan controller and software	ANC350 (for detailed specifications please see attoCONTROL section)
Options and Upgrades	
sample holder upgrade	ASH/CC/28 fits 28 pin LCCC, connected to 20 wires as twisted pairs, max. sample size 7.8 mm x 7.8 mm

