

Lake Shore Magnetometers



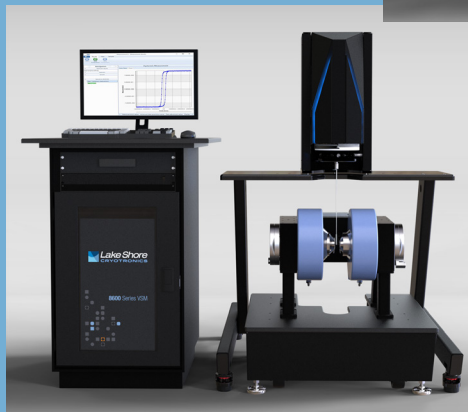
		8604	8607	7404-S	7407-S	7410-S
Magnet		4 in	7 in	4 in	7 in	10 in
Maximum field at room temperature		2.76 T	3.26 T	2.63 T	3.05 T	3.42 T
Maximum field at variable temperature	LHe/LN ₂ cryostat	1.55 T	2.31 T	1.49 T	2.12 T	2.59 T
	Single stage	2.03 T	2.62 T	1.75 T	2.28 T	2.76 T
	Oven	1.55 T	2.31 T	1.49 T	2.12 T	2.59 T
Maximum field with vector		Future		0.77 T	1.25 T	2 T
Sensitivity at room temperature	0.1 s/pt	150 nemu		750 nemu		
	1 s/pt	60 nemu		400 nemu		
	10 s/pt	25 nemu		100 nemu		
Sensitivity with SSVT option	10 s/pt	120 nemu		1.25 µemu		
Sensitivity with oven or cryostat option	10 s/pt	500 nemu		2.5 µemu		
Sensitivity with vector	10 s/pt	Future		5 µemu		
Repeatability		±1%		±1%		
Accuracy		±1%		±1%		
Stability		±0.05%/day		±0.05%/day		
Field setting resolution		1 mOe		20 mOe		
Maximum sample size		1 in (10 mm × 10 mm typical)		1 in (10 mm × 10 mm typical)		
Vector sense coils		Future		Yes		
Sample rotation		Yes (standard)		Yes (optional)		
Magneto-resistance		Future		Yes		
CCR option		Future		Consult Lake Shore		
Variable temperature	LHe cryostat	4.2 K (base), 5.5 K to 450 K (control)		4.2 K (base), 5.5 K to 450 K (control)		
	LN ₂ cryostat	77.6 K (base), 85 K to 450 K (control)		77.6 K (base), 85 K to 450 K (control)		
	Single stage	78 K (base), 100 K to 950 K (control)		78 K (base), 100 K to 950 K (control)		
	Oven	303 K to 1,273 K		303 K to 1,273 K		

8600 Series VSM

- Magnetometers for leading edge research
- 25×10^{-9} emu noise floor at 10 s/pt
- 10 ms/pt data acquisition rate
- 10,000 Oe/s field ramp rate
- Rapid, repeatable temperature option exchange
- High stability— $\pm 0.05\%$ per day
- Fields to 3.26 T—4 and 7 in magnets
- Widest available temperature range—4.2 K to 1273 K
- Standard sample rotation



Model 8607



Model 8604

7400-S Series VSM

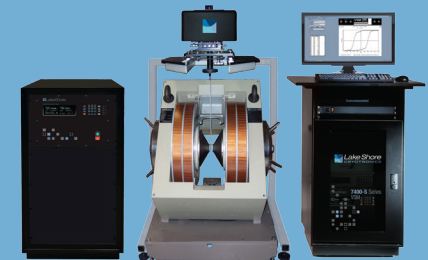
- General purpose magnetometers
- Broad range of capabilities
- Fields to 3.42 T—
4, 7, and 10 in magnets
- Sample size up to 1 in
- High temperature oven,
LHe cryostat, LN₂ cryostat,
and single stage options
- Magnetoresistance, vector,
and sample rotation options



Model 7404-S



Model 7407-S



Model 7410-S