

Lake Shore Magnetometers



		7404	7407	7410	PMC Micromag™ VSM	PMC Micromag™ AGM
Maximum field at room temperature		2.17 T	2.51 T	3.1 T	1.4 T (2 in electromagnet) 2.2 (4 in electromagnet)	1.4 T (2 in electromagnet) 2.2 (4 in electromagnet)
Maximum field at variable temperature	LHe/LN ₂ cryostat	1.18 T	1.67 T	2.3 T	1 T (2 in electromagnet) 1.8 T (4 in electromagnet)	N/A
	Single stage	1.35 T	1.8 T	2.5 T	N/A	N/A
	CCR	1.18 T	1.67 T	2.3 T	N/A	N/A
	Oven	1.18 T	1.67 T	2.3 T	1 T (2 in electromagnet) 1.8 T (4 in electromagnet)	N/A
Maximum field with vector		0.77 T	1.25 T	2 T	1 T (2 in electromagnet) 1.8 T (4 in electromagnet)	N/A N/A
Sensitivity at room temperature	1 s/pt	0.4 μemu	0.4 μemu	0.4 μemu	0.5 μemu	0.01 μemu
	10 s/pt	0.1 μemu	0.1 μemu	0.1 μemu	0.1 μemu	0.004 μemu
Sensitivity at variable temperature	1 s/pt	10 μemu (5 with single stage)	10 μemu (5 with single stage)	10 μemu (5 with single stage)	2 μemu	N/A
	10 s/pt	2.5 μemu (1.25 with single stage)	2.5 μemu (1.25 with single stage)	2.5 μemu (1.25 with single stage)	0.4 μemu	N/A
Sensitivity with vector	10 s/pt	5 μemu	5 μemu	3 μemu	0.6 μemu	N/A
Repeatability		±1%	±1%	±1%	±1%	±1%
Accuracy		±1%	±1%	±1%	±1%	±1%
Stability		±0.05%/day	±0.05%/day	±0.05%/day	<10 ⁻⁴ /h	<10 ⁻⁴ /h
Field setting resolution		20 mOe	30 mOe	30 mOe	<5 mOe	<5 mOe
Maximum sample size		1 in (10 mm × 10 mm typical)	1 in (10 mm × 10 mm typical)	1 in (10 mm × 10 mm typical)	5 mm × 5 mm	5 mm × 5 mm
Vector		Yes	Yes	Yes	Yes	N/A
Rotation		Yes	Yes	Yes	Yes	N/A
MR option		Yes	Yes	Yes	N/A	N/A
Variable temperature	LHe/LN ₂ cryostat	5.5 K (85 K) to 450 K	6 K (85 K) to 450 K	6 K (85 K) to 450 K	10 K (125 K) to 473 K	N/A
	Single stage	78 K (100 K) to 950 K	78 K (100 K) to 950 K	78 K (100 K) to 950 K	N/A	N/A
	CCR (custom)	~20 K to 300 K	~20 K to 300 K	~20 K to 300 K	N/A	N/A
	Oven	325 K to 1273 K	325 K to 1273 K	325 K to 1273 K	325 K to 1073 K	N/A

7400 Series VSM

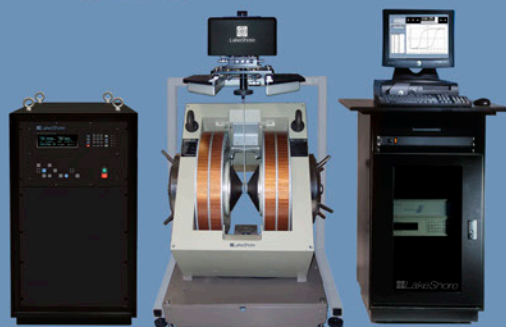
- General purpose magnetometers
- 'Workhorse' designs
- Broad range of capabilities
- High fields to 3.1 T —
4, 7 and 10 in magnets
- Sample size up to 1 in
- High temperature oven,
LHe/LN₂ cryostat,
single stage and CCR options
- Magnetoresistance, vector
and autorotation options



Model 7404



Model 7407



Model 7410

PMC Micromag™ VSM/AGM

- Special purpose magnetometers
- 'High performance' designs
- Fast scans
- High sensitivity
- High field resolution
- Sample size up to 5 mm × 5 mm
- Fields to 2.2 T — 2 and 4 in magnets
- LHe/LN₂ cryostat and oven options (VSM)
- Vector and autorotation options (VSM)
- Combination model available



Model 2900 AGM



Model 3900 VSM

Choose from 2 in
or 4 in magnets
Combination VSM/AGM
model available