

## Gaussmeters

# 5100 series



The 5100 series Hall effect portable gaussmeters represent the most recent design from the world leader in magnetic measuring equipment. This new design incorporates the use of digital signal processing technology making it the world's first hand-held gaussmeter to have a digital signal processor (DSP) on board. F.W. Bell's exclusive dynamic probe correction allows measurements from 0 to 30 kG with a basic accuracy of 1%.

Key features include auto zero, min./max./peak hold, auto range and relative mode. Both models allow the user to select Gauss, Tesla or Ampere/meter readings. The 5180 features a corrected analog output ( $\pm 3V$  FS) and a USB communication port.

The 5100 series hand-held gaussmeter's built-in software eliminates the need for complex calibration procedures. User prompts on the custom formatted LCD allow fast, simple push button operation. All models come equipped with a detachable transverse probe, zero gauss chamber, instruction manual, hard carrying case, and four AA batteries. Axial, ultra-thin transverse and low-field probes are available as options.

Applications for the 5100 Series range from the most sensitive laboratory environment to the most rugged industrial setting. All instruments are CE compliant.

### 5180 probes

- HTD18-0604, 4" transverse
- STD18-0404, 4" transverse
- STD18-0402, 2" transverse
- SAD18-1904, 4" axial
- SAD18-1902, 2" axial

### 5170 probes

- HTH17-0604, 4" transverse
- STH17-0404, 4" transverse
- STH17-0402, 2" transverse
- SAH17-1904, 4" axial
- SAH17-1902, 2" axial

### 5170/5180 probes

- STB1X-0201, ultra-thin, transverse
- MOS51-3204, low field

### Accessories

- YA-111, zero gauss chamber
- PSRD-5, AC adapter
- PSRI-5, AC adapter

### Contact

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### Specifications

<b>Model:</b>	<b>5170</b>	<b>5180</b>
Basic DC accuracy	2%	1.1%
Frequency bandwidth	DC- 20 kHz	DC- 25 kHz
Update rate:		
Display	4 readings / sec.	4 readings / sec.
Analog	None	100K samples / sec.
Ranges:		
Ultra-low range	1 G	1 G
Low range	200 G	300 G
Mid-range	2 kG	3 kG
High range	20 kG	30 kG
Resolution:		
Ultra-low range	1 mG	1 mG
Low range	0.1 G	0.1 G
Mid-range	1.0 G	1.0 G
High range	10 G	10 G
Display	LCD	LCD
Digits	3.5	3.67
Readings	Gauss, Tesla, Amps/meter	Gauss, Tesla, Amps/meter
Analog output	None	±3 V FS
Communication port	None	USB (1 sample / sec.)
Battery type	4 AA alkaline	
Operating temperature	0°C to 50°C	
Storage temperature	-25°C to 70°C	
Size	6.9" x 3.9" x 1.44"	
Shipping weight- domestic	3.5 lbs. (1.59 kg)	
Shipping weight- international	4.0 lbs. (1.82 kg)	

Note: Due to continuous process improvement, specifications are subject to change without notice