

3D Magnetic Mapping Distribution of Permanent Magnets



Pictures are for reference only.

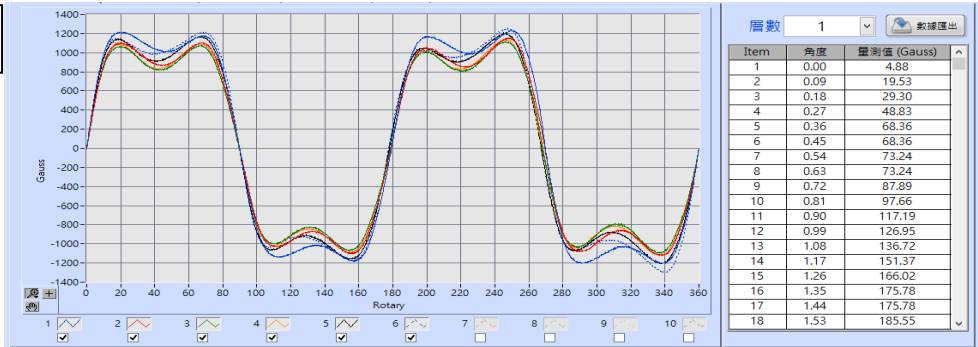
- With American F.W. Bell Gaussian meter (5200 series or 8000 series).
- Measuring range: 0G-30KG (according to the specifications of the model type).
- Precision three-jaw test bench: Applicable diameter range from 2mm to 70 mm (can be customized).
- Z-axis moving distance/resolution: 200mm/0.1mm (can be customized).
- Data capture: 40,000 per lap (Max.)
- Test items: Slope Angle, Strength, Magnetic Energy Product, Magnetic Half Height Area
- Display mode: Curve, Distribution, Polar coordinates, 3D distribution

Features :

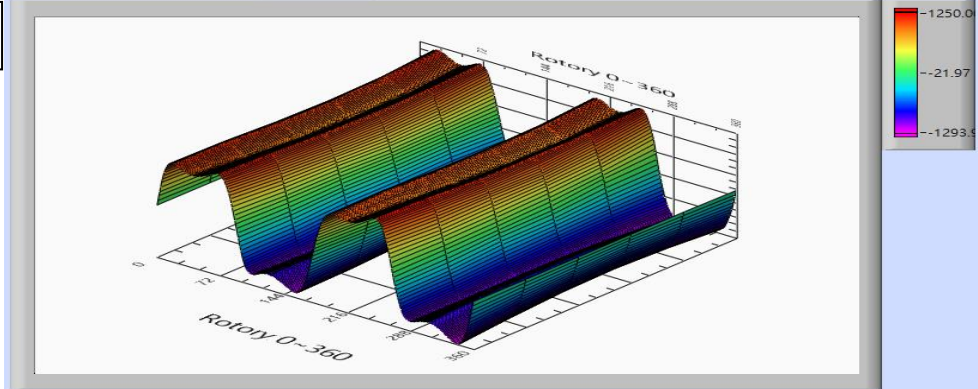
- Using Window10.0 or above operating system
- With the F.W. BELL Gauss Meter, it has high precision, fast response, durability, and stability
- Using a high-precision drive motor, the rotation is stable and precise
- 3D adopts cylindrical stereoscopic graphics to display the magnetic pole distribution, which makes it easier to analyze the magnetic pole characteristics

Display Mode:

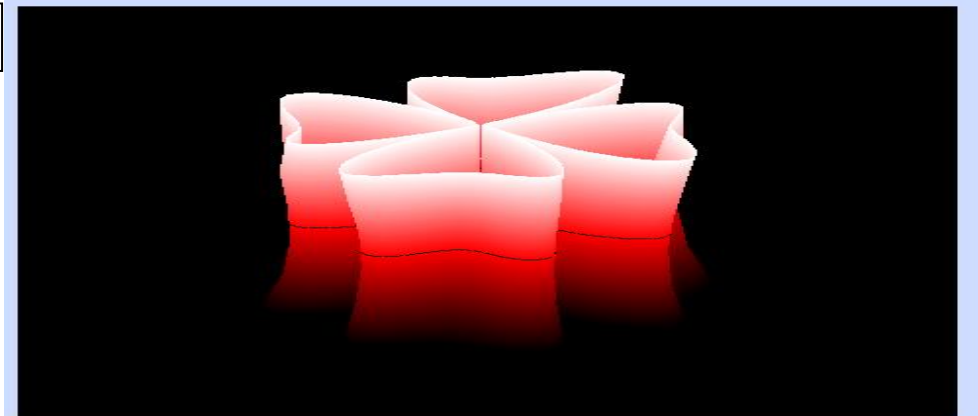
Curve



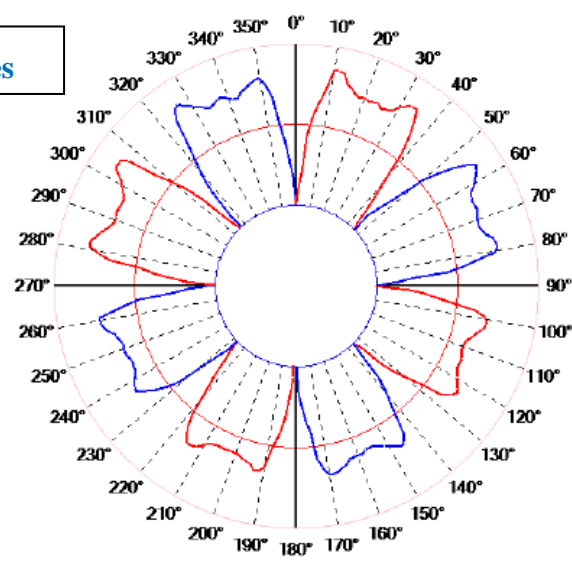
Distribution



3D



Polar coordinates



磁場分佈

Number	Pole/磁極	磁能積	最大值	展開角度
1	N	59551	2668	44.64°
2	S	58181	2625	44.64°
3	N	51275	2203	44.64°
4	S	51109	2152	46.08°
5	N	49376	2140	44.64°
6	S	51848	2268	44.64°



DATA SHEET

GAUSSMETER

Model 5200 series



01 Description

The 5200 series Hall effect portable gaussmeters represent the most recent design from the world leader in magnetic measuring equipment. This design incorporates the use of digital signal processing technology. 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. Both 5280 & 5270 features a corrected analog output ($\pm 3V$ FS) and a USB communication port.

The 5200 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 and touch operations. All models come equipped with a detachable transverse probe, zero gauss chamber, instruction manual, hard carrying case, and a Li-Ion rechargeable battery. Axial, ultra-thin transverse and low-field probes are available as options.

Probe Options

5270	5280
STH17-0404, 4" transverse	STD18-0404, 4" transverse
STH17-0402, 2" transverse	STD18-0402, 2" transverse
SAH17-1904, 4" axial	SAD18-1904, 4" axial
SAH17-1902, 2" axial	SAD18-1902, 2" axial
HTH17-0604, 4" transverse	HTD18-0604, 4" transverse
MOS51-3204, low field	

02 Key features and benefits

- 4.3" LCD touch-screen
- Controls for sound/brightness/dark mode
- 10 to 14 hours on Li-Ion rechargeable battery
- 2 hours charge time typically
- USB-C 2.0
- Remote PC control option
- 512 kbit internal memory (5280)
- Audio/visual alert when in range (5280)
- CE compliant

03 Applications

- Sensitive laboratory environment
- Rugged industrial setting
- Magnetic field intensity verification
- Measurement of magnetic componets/motors
- North/South polarity
- Magnetic field leakage detection

04 Contact

Authorized distributor:

Magnetic Sciences Inc
 367 Arlington St.
 Acton, MA 01720
 USA

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www.magneticsciences.com



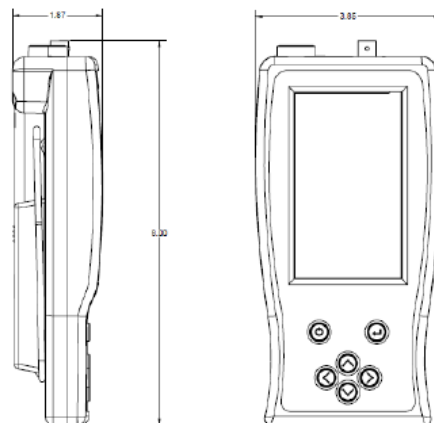
DATA SHEET

GAUSSMETER, Model 5200 Series

05 Specifications

Characteristics		
Model:	5270	5280
Basic DC accuracy	2%	1.1%
Frequency bandwidth	DC-20 kHz	DC-25 kHz
Update rate:		
Display	10 updates / sec.	10 updates / sec.
Analog	100K samples / sec.	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 G	1 G
High range	10 G	10 G
Readings	Gauss, Tesla, Amps/meter	Gauss, Tesla, Amps/meter
Operating temperature	0°C to 50°C	
Storage temperature	-25°C to 70°C	
Meter weight	0.98 lbs. (443 g)	
Size	8.00" x 3.85" x 1.87" (20.32 cm x 9.78 x 4.75 cm)	
Compliance	EN IEC 61326-1:2021	
Drop Test	1 Meter drop per IEC 61010-1: 2010	

06 Outline details



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