5100 Series Hall Effect Gauss / Tesla Meters



Description

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 Connection 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 or Tesla readings. The Model 5180 also has a selection for readings in Ampere/Meters and features a corrected analog output (±3V FS) and a USB communications 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 and other style 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.

Features

- · The best accuracy in it's class
- Data logging capability
- 20X lower resolution
- Frequency Response 2X better than competitor
- The only handheld meter with DSP (Digital Signal Processing)
- Auto Zero
- Min/Max/Peak Hold
- Auto Range
- Relative Mode
- · Universal Serial Bus Interface



5100 Series Specifications

Model	5170	5180
Basic Accuracy	2%	1%
Frequency Bandwidth	DC-20 kHz	DC-40 kHz
Sampling Rate	5/sec	5/sec
Ranges	200 G	300 G
Low Range Mid Range	2 kG	3 kG
High Range	20 kG	30 kG
Resolution Low Range Mid Range High Range	0.1 G (10 μT)	0.1 G (10 μT)
	1.0 G (100 μT)	1.0 G (100 μT)
	10 G (1 mT)	10 G (1 mT)
Display	LCD	LCD
Digits	3 1/2	3 1/2
Readings	Gauss Tesla Amps / Meters	Gauss Tesla Amps / Meters
Analog Output	-	±3V FS
Communication Port	-	USB

General Information	All Models	
Temperature		
Operating	0°C to 50°C	
Storage	-25°C to 70°C	
Power	4 AA batteries	
Size	6.9 in x 3.9 in x 1.44 in.	

Probes and Accessories

Model Number Description			ALC: NO	
Model 5180 F	Probes			
HTD18-0604 STD18-0404 STD18-0402 SAD18-1904	4" Transverse Pro 4" Transverse Pro 2" Transverse Pro 4" Axial Probe	obe (incl. w/5180)		
SAD18-1904 SAD18-1902	2" Axial Probe			

Model 5170 Probes

HTH17-0604	4" Transverse Probe
STH17-0404	4" Transverse Probe (incl. w/5170)
STH17-0402	2" Transverse Probe
SAH17-1904	4" Axial Probe
SAH17-1902	2" Axial Probe

Models 5170/5180 Gaussmeter Probes

STB1X-0201 Ultra Thin Transverse Probe (0.020") MOS51-3204 Low Field Probe (0.020")

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

Shipping Weight

Domestic 12 lbs 5.5 kgs International 17 lbs 8.0 kgs Net 11 lbs 5.0 kgs International 16 lbs 7.5 kgs



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