

5000 Series **Hand-Held Gaussmeters**



Description

The 5000 Series Hall effect portable gaussmeters represent the latest design from the world leader in magnetic measuring equipment. 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. All models allow the user to select Gauss or Tesla readings. The Model 5080 also has a selection for readings in Ampere/Meters and features a corrected analog output (± 3 V F.S.) and an RS-232 communications port.

The 5000 Series Hand-Held Gaussmeters' 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 two 9 volt batteries. Axial and other style probes are available as options.

Applications for the 5000 Series range from the most sensitive laboratory environment to the most rugged industrial setting. All instruments are CE compliant.

Features

	Model 5060	Model 5070	Model 5080
Probe Included	✓	✓	✓
Auto Zero	✓	✓	✓
Min/Max Hold		✓	✓
True RMS		✓	✓
Auto Range		✓	✓
True Peak Hold			✓
Relative Mode			✓
Outputs (analog)			✓
Communication Port			✓

Hall Effect Gaussmeters

5000 Series Specifications



Hall Effect Gaussmeters

Model	5060	5070	5080
Basic Accuracy	4%	2%	1%
Frequency Bandwidth	dc	dc - 10 kHz	dc - 20 kHz
Sampling Rate (dc Mode)	10/sec	10/sec	10/sec
Ranges	(2)	(3)	(3)
Low Range	2 kG	200 G	300 G
Mid Range	-	2 kG	3 kG
High Range	20 kG	20 kG	30 kG
Resolution			
Low Range	1.0 G (100 μ T)	0.1 G (10 μ T)	0.1 G (10 μ T)
Mid Range	-	1.0 G (100 μ T)	1.0 G (100 μ T)
High Range	10 G (1 mT)	10 G (1 mT)	10 G (1 mT)
Display	LCD	LCD	LCD
Digits	3 ^{1/2}	3 ^{1/2}	3 ^{3/4}
Readings	Gauss Tesla	Gauss Tesla Ampere / Meters	Gauss Tesla Ampere / Meters
Analog Output	-	-	\pm 3V F.S.
Communication Port	-	-	RS-232

General Information

Model	All
Temperature	
Operating	0°C to +50°C
Storage	-25°C to +70°C
Power	two 9V batteries
Size	
Length x Width x Height	5.2 (132 mm) x 5.3 (135 mm) x 1.5 (38 mm)

Probes and Accessories

Model Number	Description	Item Number
Model 5080 Probes		
STD58-0404	4 Transverse Probe (Std. w meter)	125804
STD58-0402	2 Transverse Probe	125803
SAD58-1904	4 Axial Probe	125802
SAD58-1902	2 Axial Probe	125801
Model 5070 Probes		
STH57-0404	4 Transverse Probe (Std. w meter)	125704
STH57-0402	2 Transverse Probe	125703
SAH57-1904	4 Axial Probe	125702
SAH57-1902	2 Axial Probe	125701
Model 5060 Probes		
HTV56-0602	2 H.D. Transverse Probe (Std. w meter)	125605
STV56-0404	4 Transverse Probe	125604
STV56-0402	2 Transverse Probe	125603
SAV56-1904	4 Axial Probe	125602
SAV56-1902	2 Axial Probe	125601
Meter Accessories		
X-5000-0006	6 ft. Extension Cable	125000
YA-111	Zero Gauss Chamber	122920
PSU-15	AC Adapter, 110V	145012
PSR-15	AC Adapter, Switching	115001

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



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