

# 5000 Series **Hand-Held Gaussmeters**

# Hall Effect 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 ( $\pm 3$  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			√



# 5000 Series **Specifications**



Hall Effect Gaussmeters

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

## General Information

Model	All
<b>Temperature</b>	
Operating	0°C to +50°C
Storage	-20°C to +60°C
<b>Power</b>	two 9V batteries
<b>Size</b>	
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
<b>Model 5080 Probes</b>		
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
<b>Model 5070 Probes</b>		
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
<b>Model 5060 Probes</b>		
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
<b>Meter Accessories</b>		
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.