Series 7000 **Gaussmeter Probes**

Description

F.W. Bell's fifth generation gaussmeter probes are designed to meet the electrical and mechanical requirements of virtually any application. Models are available for *transverse* (lines of flux moving perpendicular through the probe tip) and *axial* (magnetic lines of flux moving through the length of the probe) measurements. *Cryogenic, magnaprobe* and *multi-axis* probes are also available.

The probe style is generally dependent on the measurement environment. The Standard (fiberglass stem) style is recommended for laboratory or light-handling environments. The Heavy Duty (aluminum stem) style is recommended for heavy-handling or unknown environments. Custom probes are available upon request.

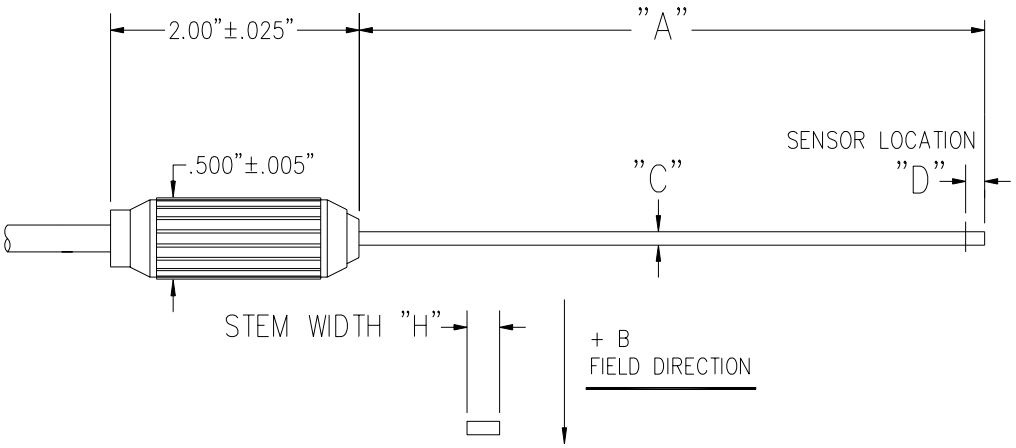
Each probe model is designated with an alphanumeric model number. The chart below shows the significance of each letter and numeral. The probes are assembled and calibrated at the factory to match the input characteristics of each Gaussmeter.

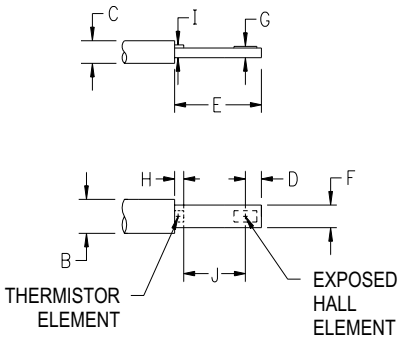
HTF71 - 0608 - 05 - T

PROBE STYLE	PROBE TYPE	ELECTRICAL PERFORMANCE	GAUSSMETER MODEL	OUTSIDE DIA. or THICKNESS	PROBE STEM LENGTH	CABLE LENGTH	TEMPERATURE COMPENSATION
F = Flexible	A = Axial	A = 0.25% 10kG 1X	61 = 6010	**OUTSIDE DIA.**	02 = 2"	05 = 5 feet	T = Yes
H = Heavy Duty	T = Transverse	F = 0.25% 30kG 1X	71 = 7010	18 = .180"	04 = 4"	15 = 15 feet	Blank = No
S = Standard	O = Not Applicable	M = 0.15% 30kG 10X	73 = 7030	25 = .250"	06 = 6"	30 = 30 feet	
M = Magna Probe		X = 0.50% 2G .01X		32 = .312"	08 = 8"		
Z = 3 Axis				**THICKNESS**	15 = 15"		
				02 = .020"			
				04 = .040"			
				06 = .060"			

Gaussmeter Probes **Specifications**

Transverse Probes



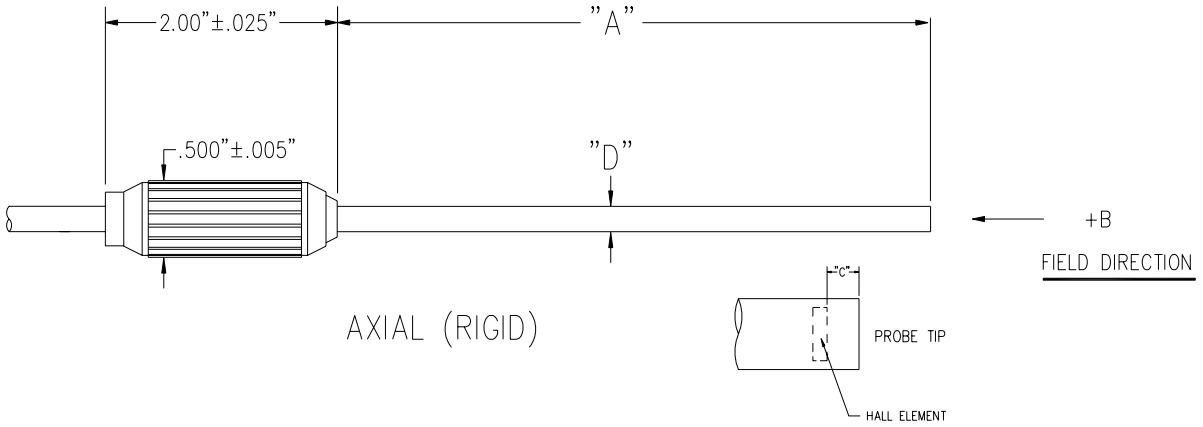


Model	Price	A	H	C	D	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
HTF71-0608-05		8" ± .063														
HTF71-0608-15		8" ± .063														
HTF71-0608-30		8" ± .063														
HTF71-0608-05-T		8" ± .063														
HTF71-0608-15-T		8" ± .063														
HTF71-0608-30-T		8" ± .063														
HTM71-0608-05		8" ± .063	.180"	0.060"												
HTM71-0608-15		8" ± .063	±.003	+ 0												
HTM71-0608-30		8" ± .063		-0.004												
HTM71-0608-05-T		8" ± .063														
HTM71-0608-15-T		8" ± .063														
HTM71-0608-30-T		8" ± .063														
STF71-0402-05		2" ± .063														
STF71-0402-15		2" ± .063														
STF71-0402-30		2" ± .063														
STF71-0402-05-T		2" ± .063														
STF71-0402-15-T		2" ± .063														
STF71-0402-30-T		2" ± .063														
STF71-0404-05		4" ± .063			0.150"					0.25%						
STF71-0404-15		4" ± .063			±0.020					to						
STF71-0404-30		4" ± .063								30kG						
STF71-0404-05-T		4" ± .063														
STF71-0404-15-T		4" ± .063														
STF71-0404-30-T		4" ± .063														
STM71-0402-05		2" ± .063	0.150"	0.040												
STM71-0402-15		2" ± .063	±0.004"	+ 0												
STM71-0402-30		2" ± .063		- 0.004												
STM71-0402-05-T		2" ± .063														
STM71-0402-15-T		2" ± .063														
STM71-0402-30-T		2" ± .063														
STM71-0404-05		4" ± .063														
STM71-0404-15		4" ± .063														
STM71-0404-30		4" ± .063														
STM71-0404-05-T		4" ± .063														
STM71-0404-15-T		4" ± .063														
STM71-0404-30-T		4" ± .063														
STF71-0204-05		4" ± .063														
STF71-0204-15		4" ± .063														
STF71-0204-30		4" ± .063														
STF71-0204-05-T		4" ± .063														
STF71-0204-15-T		4" ± .063														
STF71-0204-30-T		4" ± .063	.155"	0.040"	0.130"	.375"	0.130"	0.020"		0.25%						
STM71-0204-05		4" ± .063	±0.005	+.002	±0.008	±0.063	±0.003	±0.003		to						
STM71-0204-15		4" ± .063		-.009						30kG						
STM71-0204-30		4" ± .063														
STM71-0204-05-T		4" ± .063														
STM71-0204-15-T		4" ± .063														
STM71-0204-30-T		4" ± .063														

Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
ALUMINUM	0.25% to 30kG	dc to 20kHz	1X	0.070" dia	0°C to +75°C	±0.09G	-0.04%
ALUMINUM	0.15% to 30kG	dc to 400Hz	10X	0.040" dia	0°C to +75°C	±0.13G	±0.005%
RIGID GLASS	0.25% to 30kG	dc to 20kHz	1X	0.070" dia	0°C to +75°C	±0.09G	-0.04%
RIGID EPOXY	0.15% to 30kG	dc to 400Hz	10X	0.040" dia	0°C to +75°C	±0.13G	±0.005%
SEMI RIGID	0.25% to 30kG	dc to 20kHz	1X	0.070" dia	0°C to +75°C	±0.090G	-0.04%
SEMI RIGID	0.15% to 30kG	dc to 400Hz	10X	0.040" dia	0°C to +75°C	±0.13G	±0.005%

Gaussmeter Probes **Specifications**

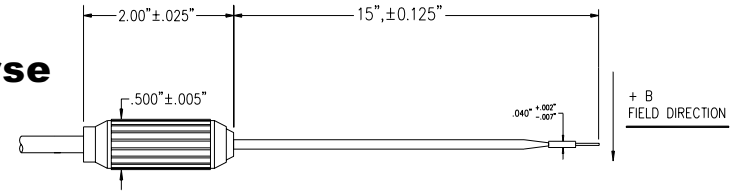
Axial Probes



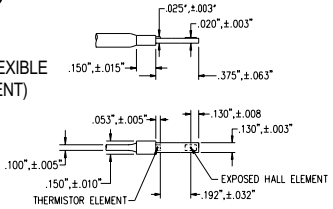
Model	Price	A	H	C	D	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
HAF71-2502-05		2"±.063														
HAF71-2502-15		2"±.063														
HAF71-2502-30		2"±.063														
HAF71-2502-05-T		2"±.063														
HAF71-2502-15-T		2"±.063								0.25%						
HAF71-2502-30-T		2"±.063								to	dc to 20kHZ	1X			±.09G	-0.04%
HAF71-2508-05		8"±.063								30kG						
HAF71-2508-15		8"±.063														
HAF71-2508-30		8"±.063														
HAF71-2508-05-T		8"±.063														
HAF71-2508-15-T		8"±.063														
HAF71-2508-30-T		8"±.063			.250"											
HAM71-2502-05		2"±.063			±.005											
HAM71-2502-15		2"±.063														
HAM71-2502-30		2"±.063														
HAM71-2502-05-T		2"±.063														
HAM71-2502-15-T		2"±.063								0.15%						
HAM71-2502-30-T		2"±.063								to	dc to 400Hz	10X			±.13G	±0.005%
HAM71-2508-05		8"±.063								30kG						
HAM71-2508-15		8"±.063														
HAM71-2508-30		8"±.063														
HAM71-2508-05-T		8"±.063														
HAM71-2508-15-T		8"±.063														
HAM71-2508-30-T		8"±.063	N/A	.015"		N/A	N/A	N/A					.030" dia	0°C		
SAF71-1802-05		2"±.063		±0.010					A					to		
SAF71-1802-15		2"±.063							L					+75°C		
SAF71-1802-30		2"±.063							U							
SAF71-1802-05-T		2"±.063							M							
SAF71-1802-15-T		2"±.063							I							
SAF71-1802-30-T		2"±.063							N	0.25%						
SAF71-1808-05		8"±.063							U	to	dc to 20kHz	1X			±.09G	-0.04%
SAF71-1808-15		8"±.063							M	30kG						
SAF71-1808-30		8"±.063														
SAF71-1808-05-T		8"±.063														
SAF71-1808-15-T		8"±.063			.180"											
SAF71-1808-30-T		8"±.063			+0.002											
SAM71-1802-05		2"±.063			-0.007											
SAM71-1802-15		2"±.063														
SAM71-1808-30		2"±.063														
SAM71-1802-05-T		2"±.063														
SAM71-1802-15-T		2"±.063														
SAM71-1802-30-T		2"±.063								0.15%						
SAM71-1808-05		8"±.063								to	dc to400Hz	10X			±.13G	±0.005%
SAM71-1808-15		8"±.063								30kG						
SAM71-1808-30		8"±.063														
SAM71-1808-05-T		8"±.063														
SAM71-1808-15-T		8"±.063														
SAM71-1808-30-T		8"±.063														

Gaussmeter Probes **Specifications**

Transverse Flexible Probes

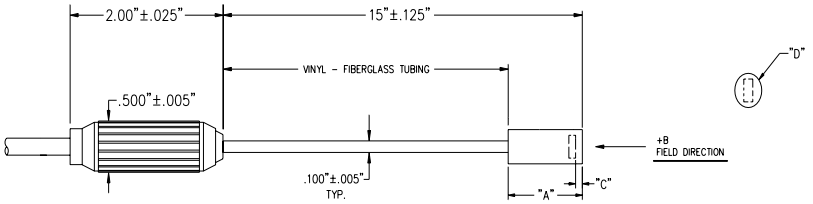


TRANSVERSE FLEXIBLE
(EXPOSED ELEMENT)



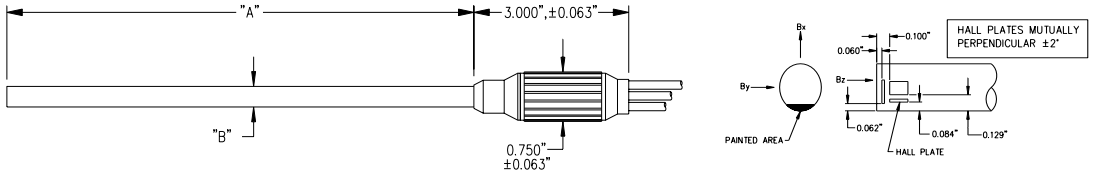
Model	Price	A	H	C	D	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
FTF71-0215-05		N/A	N/A	N/A	N/A	.375" ±0.063	N/A	N/A	FSED	0.25% to 30kG	dc to 20kHz	1X	0.070" dia.	0°C to +75°C	±0.09G	-0.04%
FTF71-0215-15																
FTF71-0215-30																
FTF71-0215-05-T																
FTF71-0215-15-T																
FTF71-0215-30-T																
FTM71-0215-05										0.15% to 30kG	dc to 400Hz	10X	0.040" dia.		±0.13G	±.005%
FTM71-0215-15																
FTM71-0215-30																
FTM71-0215-05-T																
FTM71-0215-15-T																
FTM71-0215-30-T																

Axial Flexible Probes



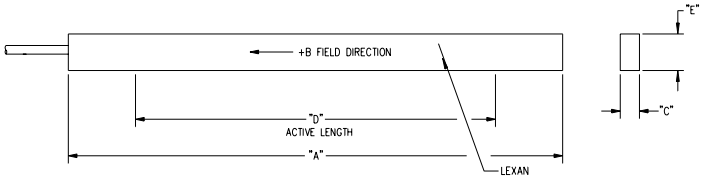
Model	Price	A	H	C	D	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
FAF71-1815-05		1.00" ±.010	N/A	0.015" ±.010	0.180" +0.002 -0.004	N/A	N/A	N/A	ALUMINUM TIP	0.25% to 30kG	dc to 20kHz	1X	0.030" dia	0°C to +75°C	±0.09G	-0.04%
FAF71-1815-15																
FAF71-1815-30																
FAF71-1815-05-T																
FAF71-1815-15-T																
FAF71-1815-30-T																
FAM71-1815-05										0.15% to 30kG	dc to 400HZ	10X			±0.13G	±.005%
FAM71-1815-15																
FAM71-1815-30																
FAM71-1815-05-T																
FAM71-1815-15-T																
FAM71-1815-30-T																

Standard 3-Axis Probes



Model	Price	A	H	C	B	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (/°C)	Temp. Stability (Max) Calibrate (/°C)
ZOA73-3208-05		8.0" ±0.125	N/A	N/A	0.312 ±0.005	N/A	N/A	N/A	Alum.	N/A	dc to 400Hz	1X	.060" Dia (NOM)	0°C to +75°C	±0.1G	-0.040%
ZOA73-3208-05-T																

Magnaprobes



Model	Price	A	H	C	D	E	F	G	Stem	Linearity % of Reading	Frequency Range	Sensitivity	Nominal Active Area	Oper. Temp Range	Temp. Stability (Max) Zero (°C)	Temp. Stability (Max) Calibrate (°C)
MOX71-2506-05		9"±.030	N/A	.250"±.010	6"	.480"±.030	N/A	N/A	Lexan	.5% to 2G	dc to 400Hz	.01X	6"x.25"	0°C to +75°C	±.070G	-0.04%
MOX71-2506-15																
MOX71-2506-30																
MOX71-2605-05-T																
MOX71-2506-15-T																
MOX71-2506-30-T																