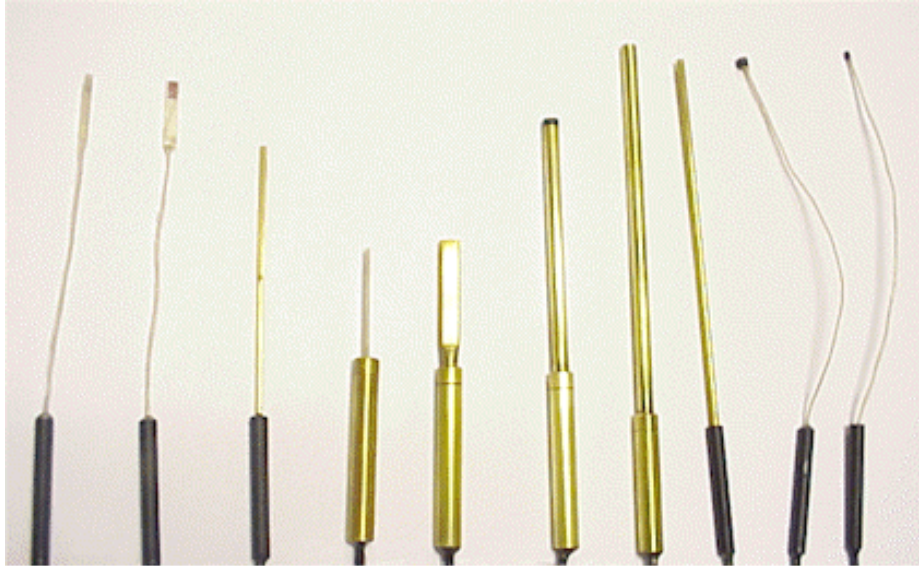




## Basic Hall Effect Probes

These probes are designed for older style Gaussmeters and Teslameters and are supplied with a "Calibration number" and printed calibration data for each measurement range. They can be used with the following Model numbers: 7300 Series, 750, 750A&D, 904, 906/906A, 912 and 915 Gaussmeters or Teslameters.



### Description

Magnetic Instrumentation, Inc. manufactures Hall Effect Probes in a wide range of styles and sizes. Probes are supplied with magnetic, electrical, temperature stability and calibration data for each measurement range.

### Transverse (Flat) Probe

Transverse Probes are used to measure magnetic fields perpendicular to their flat surfaces, and are available in thicknesses of 0.015 inch (.038 cm) to 0.080 inch (.203 cm). The Model 025 and Model 039 Probes have fiberglass/epoxy sleeves protecting the sensitive Hall element.

### Axial Probes

Axial Probes are used to measure magnetic fields parallel to the probe handle, such as the field in a solenoid. The Hall element is located at the tip of the Probe. The Axial Probes are available in diameters of 0.098 inch (.248 cm) to 0.312 inch (.729 cm).

### Ruggedized Probes

Ruggedized (R) Probes styles are available for use in harsh environments. They are enclosed in brass for protection against damage.

### Probes for Special Application

Magnetic Instrumentation, Inc. can manufacture special Probes to satisfy magnetic measuring requirements not covered by our standard Probes. Contact our magnetics applications engineers for assistance.

### High Field Probes

High Field Transverse and Axial Probes are available for measurement of fields up to 100 Kilogauss (10 Tesla).

### Temperature Characteristics

The temperature characteristics will vary slightly between individual Probes and Probe types. The maximum change that can be expected is approximately .08% per °C. All Probes may be used in the temperature range of -60°C to +84°C (-76° to + 183°F).

### Connecting Cables

All Hall Effect Probes are furnished with 6 feet (1.82 meters) of connecting cable and mating connectors for the model with which they will be used. Extension cables are available.

**Ordering Information**

The Gaussmeter or Teslameter model number and the Probe type number are used as the model number of the complete Probe. Example: A type 020 Probe for use with a Model 912 Gaussmeter would be a Model 912-020 Probe. Hall Probes for the Model 750A and 750D require the serial number of the Gaussmeter.

**Axial Probes**

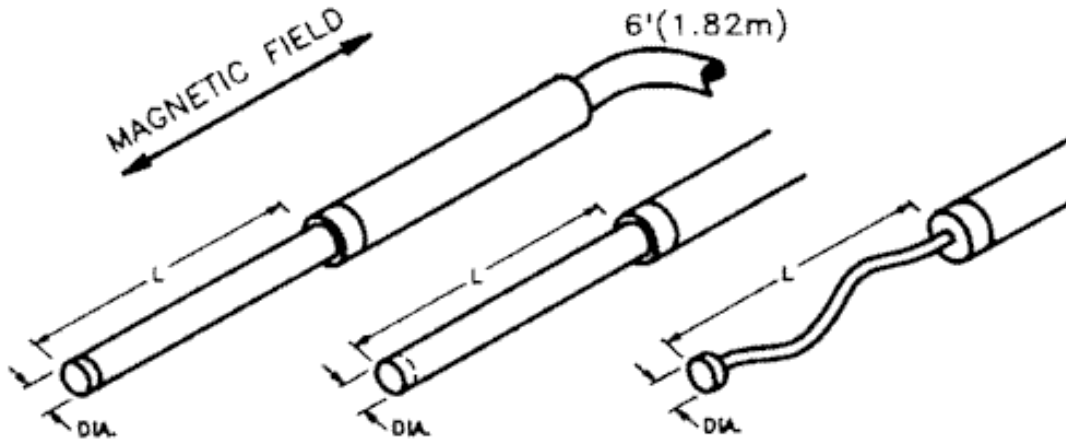


Figure 1 (Left): Axial End Mounted Element.

Figure 2 (Middle): Axial Recessed Element Ruggedized.

Figure 3 (Right): Axial Flexible Leads. Has flexible leads from the handle to the element.

Model	Diameter	L=Length	Range	Diameter	L=Length	Range	*Handle	Figure
Tolerance	±.003"	±.007"	± 1% Gauss	± .1 cm	±.25 cm	±1% Tesla		
709	.098"	2.50	10 kG	.248	6.3	1T	B	1
100	.100"	6.75	10 kG	.254	17.1	1T	A	3
100R	.125"	6.00	10 kG	.317	15.3	1T	A	2
713	.130	4.00	10 kG	.330	10.2	1T	B	1
156R	.156"	6.00	10 kG	.396	15.3	1T	A	2
719R	.187"	4.00	10 kG	.475	10.2	1T	B	2
200	.200"	6.75	10 kG	.508	17.1	1T	A	3
200R	.250"	6.00	10 kG	.635	15.3	1T	A	2
725	.250"	4.00	100 kG	.635	10.2	10T	B	1
726	.250"	4.00	30 kG	.635	10.2	3T	B	1
728R	.281"	4.00	10 kG	.713	10.2	1T	B	2
312R	.312"	4.00	10 kG	.792	10.2	1T	None	2

\*Handle A = 2.5" (6.35 cm) Length x 3/16" (.47 cm) Diameter

\*Handle B = 2 3/8" (6.03 cm) Length x 3/8" (.95 cm) Diameter

# Transverse Probes

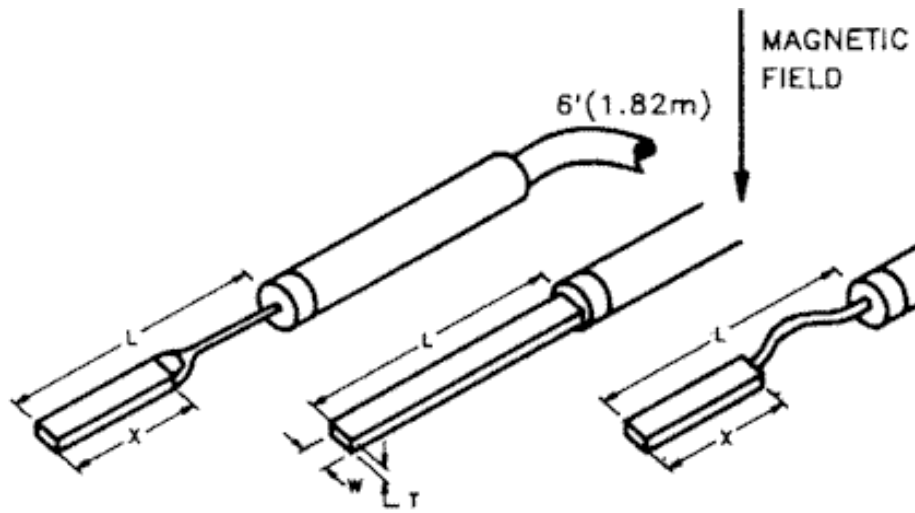


Figure 4 (Left): Transverse Brass Enclosed Ruggedized.

Figure 5: (Middle): Transverse Rigid.

Figure 6: (Right): Transverse Flexible Leads. Has flexible leads from the handle to the element.

Model	T x W x L	X	Range	T x W x L	X	Range	*Handle	Figure
Tolerance	±.002 x .010 x .10	± .05"	± 1% Gauss	±.005cm x .025cm x .25cm	±.13cm	± 1% Tesla	x	x
015	.015 x .080 x 5.00	1.15	10 kG	.038 x .203 x 12.70	2.92	1T	A	6
020	.020 x .125 x 5.00	1.05	10 kG	.051 x .317 x 12.70	2.67	1T	A	6
025	.025 x .203 x 5.00	1.00	10 kG	.063 x .515 x 12.70	2.54	1T	A	6
753	.032 x .125 x 1.62	x	10 kG	.081 x .317 x 4.11	x	1T	B	5
035R	.035 x .120 x 4.00	2.00	10 kG	.089 x .305 x 10.10	5.08	1T	A	4
039	.039 x .155 x 5.00	1.00	10 kG	.099 x .392 x 12.70	2.54	1T	A	6
755	.040 x .150 x 3.00	x	10 KG	.102 x .381 x 7.62	x	1T	B	x
039R	.056 x .170 x 5.00	2.00	10 kG	.142 x .432 x 12.70	5.08	1T	B	4

756R	.060 x .200 x 1.62	0.35	10 kG	.152 x .508 x 4.11	0.89	1T	B	4
757R	.080 x .300 x 1.97	1.62	100 kG	.203 x .762 x 5.00	4.11	10T	B	4
758R	.080 x .300 x 1.97	1.62	30 kG	.203 x .762 x 5.00	4.11	3T	B	4

\*Handle A = 2.1/2" (6.35 cm) Length x 3/16" (.47 cm) Diameter

\*Handle B = 2 3/8" (6.03 cm) Length x 3/8" (.95 cm) Diameter

Special Hall Probes quoted on request., Probe Extension Cable (up to 15')  
Specify type of Gaussmeter when ordering cable.

Shipping Weight: 1 lb (453 grams)

When ordering use model number of Gaussmeter as prefix i.e. 906-039, 7305-709, 912-100R, etc., R = Ruggedized, Model 750's require S/N and old connector

Specifications subject to change without notice.

Contact our factory for additional information.  
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