

## LAB KIT ACCESSORIES

**MAGNETIC SHIELD** CORP.



### EP-101 ~ PICKUP PROBES

Three options available:

**EP-101A** ~ Axial directional with 2-prong banana plug

**EP-102A** ~ Axial directional with BNC connector

**EP-102T** ~ Transverse directional with BNC connector

These evaluator probes can be used with a digital volt meter or oscilloscope to measure AC magnetic field intensities and attenuation ratios. These probes are accurate from 10Hz to 3000Hz in Axial or Transverse directions. Each probe is calibrated at Magnetic Shield Corporation.



## STARTER GUIDE



### EF-401 ~ AC GAUSSMETER

This handheld, single-axis AC magnetic field meter provides quick & reliable measurements of electromagnetic field (EMF) radiation generated by external sources like power lines, electrical wiring, motors, audio/visual equipment and other devices.

No probe is required – just position this Gaussmeter in the affected area. For detailed specifications go to: [www.magneticshield.com](http://www.magneticshield.com).



# UNIVERSITY LAB KIT

LK-130U



FOR ADDITIONAL MATERIAL CONTACT US:

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E: [shields@magnetic-shield.com](mailto:shields@magnetic-shield.com)  
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[www.magnetic-shield.com](http://www.magnetic-shield.com)

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## YOUR LAB KIT INCLUDES

### ✓ MATERIAL SAMPLES

#### MuMETAL® Sheet & Foil\*

1pc .004" x 8" x 6"  
1pc .008" x 8" x 6"  
1pc .025" x 8" x 6"

#### NETIC® S3-6 Sheet & Foil

1pc .004" x 4" x 8"  
1pc .030" x 8" x 6"

#### CO-NETIC® AA Wire

1pc .025" x 12" long  
1pc .040" x 12" long  
1pc .080" x 12" long

#### AA CABLE SHIELD®

1pc 3/4" x 7" long

#### INTER-8® Weave Cable

1pc PVC insulated cable 12" long

#### NETIC® ET (Electro-tin plated) Foil

1pc .010" x 4" x 8"

\*All MuMETAL® Foil is fully annealed and does not require re-annealing unless severe forming is performed. MuMETAL® Sheet is stress relieved and requires soft magnetic anneal after stamping, severe forming or heliarc welding.

### ✓ PRESSURE SENSITIVE TAPE (PST)

4" wide x 16" long piece of double-faced, pressure sensitive tape (PST).

### ✓ SLIDE RULE CALCULATOR

Our easy to use calculator provides a quick reference for comparing thickness of MuMETAL® or Co-NETIC® alloy required to effectively shield the source field ( $H_0$ ) vs. diameter (size) of the magnetic shield you will use (calculated as a theoretical cylinder).

### ✓ MUMETAL® STICKY-NOTE PAD

### ✓ ACCESS TO TECHNICAL GUIDE

Read our Technical Guide to MuMETAL® and Magnetic Shielding.  
Available at: [www.universitylabkit.com/LK-130U/TechnicalGuide](http://www.universitylabkit.com/LK-130U/TechnicalGuide)

See back for additional accessories.

As technical leader of Magnetic Shield Corporation and our team of shielding experts, I am delighted to be a part of creating this educational tool for students of electromagnetics. As an engineer for the past 27 years, I have appreciated study of calculative theory and use of algebraic formulae. I also appreciate the numerous times we've used experimentation, sampling and hands-on evaluation for verification and proof. We have always supported a hands-on approach. This Starter Guide outlines use of your Lab Kit. As you use our magnetic shielding alloys and wire & cable shields to mock-up and study the effects of EMP, ELF, EMF and EMI remember to contact us for further technical support. We wish you a challenging and rewarding journey into the fields of science, research, physics, engineering, and product design.



Mark D. Wickler  
President & CEO  
Magnetic Shield Corporation  
*EXPERTS SINCE 1941*

## NEXT STEPS



### TECHNICAL GUIDE

Use this QR code for direct access to our  
**Technical Guide to MuMETAL® and Magnetic Shielding.**

Available at: [www.universitylabkit.com/LK-130U/TechnicalGuide](http://www.universitylabkit.com/LK-130U/TechnicalGuide)

The Technical Guide may be updated from time to time.  
Check back occasionally.

### CONNECT TO OTHERS



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### VISIT OUR WEBSITE

[www.magnetic-shield.com](http://www.magnetic-shield.com)