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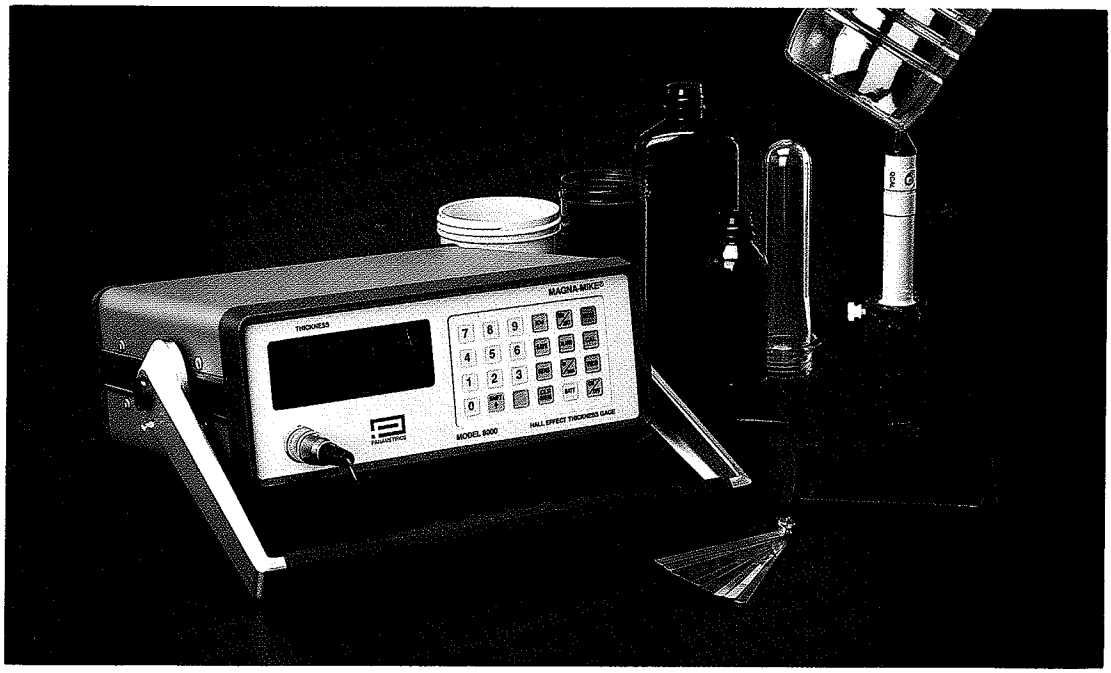
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Find the *GE / Panametrics 8000* at our website: *Click HERE*

PANAMETRICS

MAGNA-MIKE® Model 8000

Hall Effect Digital Thickness Gage



Features

- Measurement range of 0 to 0.250 inch (0 to 6.35mm).
- Accuracy not dependent upon shape or internal properties of material being tested.
- Thickness resolution of 0.001 or 0.0001 inch (0.01 or 0.001mm).
- Min/Max mode holds minimum or maximum thickness reading until reset.
- Programmable Hi-Low alarms with audio visual indicators.
- English/metric readout conversion.
- Large LED display with informational prompts.

Internal Datalogger

- Serial RS-232 and parallel outputs for easy interfacing to printers, computers, and SPC devices.
- Capacity to store up to 1000 thickness readings with ID codes.
- Ability to review stored thickness readings directly on the gage without downloading information.

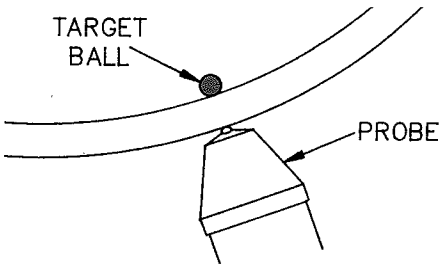
Introduction

The Magna-Mike® Model 8000 Hall Effect Thickness Gage is an easy-to-use portable instrument that combines thickness measurements and data-logging functions in one field rugged package. The Magna-Mike makes nondestructive thickness measurements of all nonferrous materials such as: plastics, glass, rubber, composites, paper, aluminum, titanium, and more. It has a measurement range of 0 to 0.250 inch (0 to 6.35mm), and the measurement accuracy is generally not dependent upon the shape or internal properties of the material.

Thickness measurements are made when a magnetic probe is held against one side of the test material and a small steel target ball on the other side. The magnetic pull easily attracts the small ball. In the case of a bottle, this ball can be simply dropped inside. A Hall effect sensor that is built into the probe measures the gap between the tip of the probe and the ball, then displays it as an instant digital thickness readout.

This simple procedure allows the operator to make fast, accurate and repeatable measurements in tight corners.

Parts can easily be moved or scanned across the probe while continuously reading thickness at a rate of 25 measurements per second. Various features, like Alarm or Min/Max hold, can be engaged so an operator is made aware of critical areas that are out of tolerance. As thickness readings are taken they can be conveniently saved in the internal datalogger, and later downloaded to a computer or printer for further analysis.



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SPECIFICATIONS

Display Resolution: (programmable)

LOW	HIGH
0.001 inch	0.0001 inch
0.01mm	0.001mm

Target Ball Diameter	Range	Calibrated Accuracy
1/16″ (1.59mm)	.0001-.090″ .001-2.29mm	±3%*
1/8″ (3.18mm)	.0001-.180″ .001-4.57mm	±2%*
3/16″ (4.76mm)	.0001-.250″ .001-6.35mm	±1%*

All specifications are nominal. For detailed specifications see manual.

*As a percent of measured thickness plus one count in inches or 2.5 counts in mm nominally but increases as range approaches full scale. Assumes calibration with accurate reference standard near the thickness being measured. Change in probe orientation may affect accuracy. Detailed description of range, resolution and accuracy is available upon request.

Scan Rate: 25 measurements per second.

Display: 4-digit 7-segment LED plus two 8-character dot matrix LED.

Datalogger: Unit will store, recall, clear, and transmit up to 1000 thickness readings with ID codes.

Data Outputs: 25 pin D female for Centronics parallel port. 25 pin D male for serial RS-232 port. Baud rate, Parity, Word Length, and Stop Bits are all keyboard selectable.

Weight: 10.4 lbs. (4.6Kg).

Size: 10.2″ W x 4.2″ H x 10.4″ L (259mm x 107mm x 264mm)

Power: 100/120/220/240 VAC, 48-62Hz or 8 hour rechargeable battery.

Operating Temperature: 0° to 50°C

STANDARD EQUIPMENT

The Magna-Mike Model 8000 Hall Effect Thickness Gage with internal Datalogger, 50-60Hz, 100/120/200/240 VAC, including:

- Standard 801PR Probe (includes cable and stand)
- Target Ball Kit (1/16, 1/8, 3/16 inch dia.)
- Calibration Standards: .010″/.25mm, .040″/1.02mm, .160″/4.06mm. For measurements over .160″/4.06mm see optional accessories.
- Remote Foot Switch
- Computer Interface Program Disk
- Rechargeable Battery, 6V, 4 amp-hr (charger is built-in)
- Instruction Manual and Quick Reference Card
- Data I/O Interface Cable (Selectable)

APPLICATIONS

The measurement technique used by the Magna-Mike allows for a wide range of nonferrous materials to be measured. Below is just a few examples of where the Magna-Mike has been successfully integrated into a quality control program.

Packaging	Plastic containers Glass containers Aluminum containers
Aerospace	Chem milled parts Tubing Composites
Medical	Syringes and tubing Disposable packaging
Automotive	Plastic body panels Air bag doors Reservoirs and tanks

BENEFITS

- Measures tight corners.
- Fast, accurate and repeatable results.
- Easy for the operator to use.
- Detects eccentricity on tubing.
- Scanned or spot measurements.
- Measures in the center of large parts.
- Combines thickness gage and datalogger.
- Portable and field rugged.

SPC

Statistical Process Control has become an important manufacturing tool. The Magna-Mike can help your quality control efforts in several ways. First the Magna-Mike has an internal datalogger which can store information and then download it to a computer for SPC analysis. Second the Magna-Mike can interface with other SPC devices such as Datamyte, QMS, Concert, and Gagetalker. The option of how you want to incorporate SPC is kept open for you.

OPTIONAL ACCESSORIES

80CAL-240	Calibration Standard .240″ (6.10mm) for applications over .160″ (4.06mm) thick
80CAL-004	.004″ (.10mm) standard
80CAL-020	.020″ (.51mm) standard
80CAL-080	.080″ (2.03mm) standard
801PC	Spare Probe Cable (for 801PR)
801CC	Coiled 12 ft Probe Cable (for 801PR)
802PR	Probe with second function button for large test specimens
80PRT	Portable Printer and I/F Cable (Seiko)
80FXV	V-Notch fixture for probe for 1/8″ to 1″ diameter cylinder

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All specifications subject to change without notice.

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