



Features

- Minimum Mode continually displays lowest thickness readings
- Handheld and lightweight (2.1 lb.)
- Few keys for simple operation
- Backlight LCD with large numerals
- Fast thickness measurements up to 16 per second
- Finds minimum thickness in tight corners
- Easily measures center of large parts
- Accuracy not dependent upon shape or properties of test material
- Internal file-based datalogger stores up to 95,000 thickness readings

Precision Thickness Gage

The Panametrics-NDT™ Magna-Mike 8500 is a handheld thickness gage that utilizes a magnetic method to make reliable and repeatable measurements on nonferrous materials. Operation of the Magna-Mike 8500 is very simple. Measurements are made when its magnetic probe is held on one side of the test material and a small steel target ball is placed on the opposite side. A Hall-effect sensor built in the probe measures the distance between the probe tip and target ball. The measurement is instantly displayed as an easy-to-read digital thickness reading.

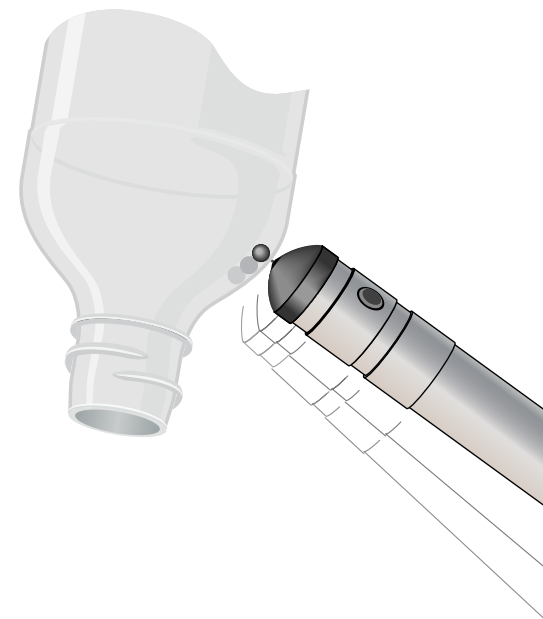
Plastic Bottles

In applications such as plastic containers, the operator simply drops the small target ball inside the container. The magnetic probe held on the outside of the container attracts the target ball.

When the operator scans the probe along the surface or critical corners, the small steel target ball will follow. In the Minimum Mode feature, the gage continually displays both the actual thickness and the lowest thickness reading.

Other Applications

The Magna-Mike 8500 is the ideal instrument for measuring difficult shapes and sizes. Nondestructive measurement capabilities allow for pinpoint thickness readings in tight corners and grooves down to a radius of 1/32". The Magna-Mike has been successfully integrated into quality control programs for glass and aluminum containers, aerospace composite parts, medical packaging, automotive panels, airbag tear seams, and other parts made from nonferrous materials.



Magna-Mike® 8500 Specifications*

Thickness Range and Accuracy

| Target Ball Diameter | Thickness Range (with standard probe) | Calibrated Accuracy |
|----------------------|---------------------------------------|---------------------|
| 1/16" | 0.0001-0.0900" | |
| (1.59 mm) | (0.001-2.286 mm) | ±3%* |
| 1/8" | 0.0001-0.1800" | |
| (3.18 mm) | (0.001-4.570 mm) | ±2%* |
| 3/16" | 0.0001-0.2500" | |
| (4.76 mm) | (0.001-6.350 mm) | ±1%* |

Accuracy depends upon thickness range.
For detailed specifications see manual.

Scan Rate: Up to 16 measurements per second, selectable

Min Mode: Rapidly locates and displays Minimum Thickness measurement

Resolution: 0.001 or 0.0001" (0.01 or 0.001 mm), selectable

Display: Liquid Crystal Display (LCD), black on gray, with electroluminescent backlight, and adjustable contrast. Can display active reading, Min reading, Alarm status, and data file information simultaneously.

Datalogger: Stores, recalls, clears and transmits up to 95,000 thickness readings with 8 character file names and 16 character alphanumeric identification codes.

Data Output: Serial RS-232 port. Baud rate, parity, and stop bits are all keypad selectable.

On-board Reports: Min, Max, SD, Mean, Median, File Comparison

Calibration: Two point standard calibration and up to 8 reference points

Differential Mode: Displays difference between actual reading and preset reference value.

Alarm Mode: Programmable Hi-Low Alarm setpoints with audible and visual indicators.

Line Power: 100/120/220/240 VAC, 48-62 Hz

Battery: Rechargeable NiCad battery. Battery duty cycle is 8-16 hrs depending on backlight usage. Recharge time is 2 hours.

Metric/English: Inches or millimeters

Languages: English, French, German, and Spanish

Operating Temperature: 0° to +50°C (+32°F to +122°F)

Size: 9.375 x 5.45 x 1.5" (238 x 138 x 38 mm)

Gage Weight: 2.1 lbs / 0.95 Kg

Standard Inclusions

The Magna-Mike Model 8500 Hall Effect Thickness Gage with Internal Alphanumeric Datalogger, including:

- Standard Probe (801PR)
- Probe Stand (80PRS)
- Basic Gage Stand (85RPC)
- Probe Cable (851PC)
- Microsoft Windows®/Excel based Interface Program (WINXL)
- User Manual (85MAN)
- Pocket Reference Card (85REF)
- NiCad Rechargeable Battery (85BAT)
- External Power Supply/charger for 8500
- RS232 I/O Cable, 9 pin female (8509F)
- Target Ball and Calibration Kit (80ACC-KIT), including target ball set (1/16", 1/8", 3/16" dia), calibration standards: 0.010"/0.25 mm, 0.040"/1 mm, 0.160"/4 mm (for measurements over 0.160"/4 mm, see optional accessories)

Optional Accessories

8525F: RS-232 I/O Cable, 25 pin female

85FSW: Remote Footswitch - Fits 2 pin Lemo® connector

80CAL-020: 0.020" (0.5 mm) calibration standard

80CAL-080: 0.080" (2 mm) calibration standard

80CAL-240: 0.240" (6 mm) calibration standard for applications over 0.160" (4 mm) thick

80CAL-NIS: NIST-traced calibration standards (set of six)

85BAT: Rechargeable Battery

851PC: Spare Probe Cable (for 801PR)

851CC: Coiled 12 ft (4 m) Probe Cable (for 801PR)

802PR: Probe with second function button for large test specimens

802PR-109: Probe, Extended Range capability to .400" (10 mm)

852CC: Coiled 12 ft (4 m) Probe Cable (for 802PR series)

852PC: Straight 3 ft (1 m) Probe Cable (for 802PR series)

85PRT: Thermal Serial Printer with Cable and Paper (80PP)

80FXV: V-Notch Fixture for Probe

 PANAMETRICS-NDT™

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