

MXG-9H

HALL EFFECT THICKNESS GAGES

- Measures the Thickness of All Nonferrous Materials
- 0.0001" to 1" Thickness Range n Minimum
- Thickness Capture with Vibrate on Alarm
- Datalogger with Interface to Excel
- Field Upgradeable



Specifications

GENERAL

Overall Dimension: 7.25" L x 4.00" W x 2.00" H (184mm x 101.6mm x 50.8mm)

Weight: 1.15 lbs (.52 kg) with internal Li-Ion battery

Operation temperature: -4 to 122F (-20 to 50C)

Keypad: Illuminating rubber keypad

Languages: English, French, German, Spanish, Italian, Russian, Czech, Finnish, Chinese, Japanese, Hungarian

Data Storage: Onboard & removable up to 32 GB MicroSD card

Battery Life: 16 h (lithium-ion) (TBD)

AC Power Requirements: AC Mains: 100 VAC to 120 VAC, 200 VAC to 240 VAC

Display Type: 3.5" high resolution color TFT display, 320 x 240 pixels (1/4 VGA), sunlight readable, including multiple color pallets

Backlight: Light Emitting Diode (LED) backlight. Includes variable light intensity.

Display Dimensions: (W x H, Diag.) 2.76 in. x 2.07 in., 3.5 in. (70.08 mm x 52.56 mm, 88.9 mm)

Min/Max Capture Mode: Captured at 60 Hz measurement rate

Display Formats: 4 modes; Thickness only, Thickness with 3 additional customizable choices, Thickness and Strip chart, Grid View

Display Update Rate: 4, 8, 16 and 20 Hz

Alarm: High and Low alarms with vibrate feature

Thickness Range: 0.001"-1.00" (0.01-25.4 mm) of any non-ferrous material with access to both sides

Resolution: 0.01 in. (0.1 mm), 0.001 in. (0.01 mm), 0.0001 in. (0.001 mm), (depending on thickness range)

Data Logger: Internal file-based alphanumeric data logger

Memory Card: Maximum capacity: 32 GB removable MicroSD memory card

Shutoff: selectable 1-31 minutes or "Never" shut off

Environmental Testing: Designed for IP67

PR-1: Standard Straight probe 2.25" (82.75 mm) long and 0.827" (21 mm) dia.

PROBE

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INPUTS/OUTPUTS

USB 2.0 peripheral port RS-232 (Optional) Bluetooth

(optional): Exports data to another device via internal bluetooth. DataXL mobile can be used to facilitate the transfer of information on IOS and Andriod phones and tablets.

STANDARD INCLUSIONS

MTG-99 Magnetic Thickness Gage including: PR-1 probe, calibration kit (MTG-CK-STD or MTG-CK-ER), 2 piece stand to hold probe (MTG-2PS), charger adapter with USB cable (ECHO- CA) transport case (MTG-TC), MTG-Cable coiled cable for PR-1, datalogger with 2 Gb of MicroSD card memory and Data XL interface program to send readings to Micorsoft Excel.

CALIBRATION KITS

MTG-CK-STD: Standard Calibration Kit includes 3 ball on calibration fixtures with shims for 1/16", 3/16" and 1/8", 7 reference thickness discs in calibration fixtures in 0.010", 0.020", 0.040", 0.080", 0.160", 0.240", 0.360" and 3 target ball sizes 1/16" (200 qty), 1/8" (300 qty), and 3/16" (75 qty)

MTG-CK-ER: Extended Range Calibration Kit includes 2 ball on calibration fixtures with shims in 1/4" magnetic and 1/4" nonmagnetic, 8 reference thickness discs in calibration fixtures in 0.040", 0.160", 0.240", 0.360", 0.500", 0.750", 0.875" and 1.000", a 1/4" standard target ball (30 qty) as well as 2 magnetic target balls in 1/4" (30 qty) and 3/16" (30 qty)

MODELS

MTG-99B: Base model with no internal datalogger to store readings. MTG-99B can single send readings to a computer via optional Bluetooth, RS232 Connection or Footswitch. Includes the standard calibration kit (CK-STD). Field upgradeable to the MTG-99.

MTG-99B-ER: MTG-99B equivalent gage that includes the Extended Range Calibration Kit (MTG-CK-ER) in place of the Standard Calibration Kit (MTG-CK-STD). Field upgradeable to the MTG-99-ER.

MTG-99: Danatronics Flagship Hall Effect Thickness Gage including Datalogger and Standard Calibration Kit (MTG-CK-STD).

MTG-99-ER: MTG-99 equivalent gage that includes the Extended Range Calibration Kit (MTG-CK-ER) in place of the Standard Calibration Kit (MTG-CK-STD).

The MTG 99 Series offers an expanded list of target options to greatly extend its measurement capability.

Targets	Min Thickness	Max Thickness	Accuracy	
PR-1			Basic Calibration	Multipoint
1/16 in. (1.58 mm) ball (BT-062)	0.0001 in. (0.001 mm)	0.080 in. (2.03 mm)	4%	3%
1/8 in. (3.17 mm) ball (BT-125)	0.0001 in. (0.001 mm)	0.240 in. (6.1 mm)	4%	2%
3/16 in. (4.76 mm) ball (BT-187)	0.0001 in. (0.001 mm)	0.360 in. (9.1 mm)	3%	1%
1/4 in. (6.35 mm) ball (BT-250)	0.0001 in. (0.001 mm)	0.360 in. (9.1 mm)	3%	1%
3/16 in. (4.76 mm) magnetic ball (MBT-187)	0.160 in. (4.06 mm)	0.750 in. (19.05 mm)	3%	1%
1/4 in. (6.35 mm) magnetic ball (MBT-250)	0.160 in. (4.06 mm)	1.00 in. (25.4 mm)	3%	1%

Note: Measurement Tolerance = [(accuracy x thickness)+(0.0001 in. or 0.003 mm)]



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