

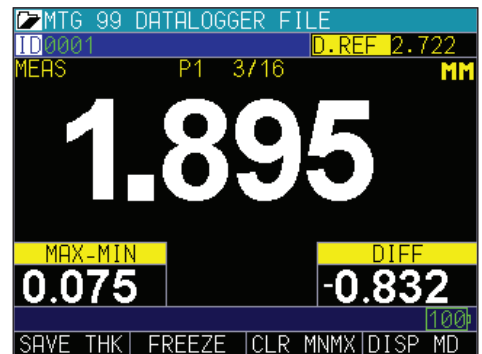
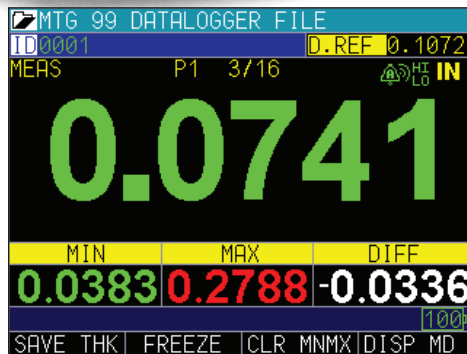
## MTG 99

### Hall Effect Thickness Gages

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



*Economical Model  
without Datalogger  
Now Available*



# 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

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

## 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 Android 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 Microsoft 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	
			Basic Calibration	Multipoint
<b>PR-1</b>				
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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