



## MTG-99

### Hall Effect Thickness Gauge

- Measures the thickness of all non-ferrous materials .
- Non-destructive measurement technology.
- 0.00254 - 2.5 cms (0.001" -1") thickness range.
- Minimum thickness capture with vibrate on alarm
- Datalogger with interface to Microsoft Excel™

#### Typical applications include:

- Plastic bottles including multi-layer and containers
- Titanium and Aluminium materials such as tubes and cans
- Composite structures
- Preforms
- Microwave trays
- Composites and FRP
- Glass containers
- Ceramics
- Plastic toys

The MTG-99 is a simple to use gauge which non-destructively measures the thickness of any non-ferrous material up to 2.5 cms (1”), where access to both sides is possible. The MTG-99 is a portable, battery operated instrument and can change colour or vibrate on alarm. There is also an internal data-logger which can interface with Microsoft Excel, making data capture easier and enable straightforward reporting.

MTG-99 Specification	
Overall Dimension	184mm x 101.6mm x 50.8mm (7.25” L x 4.00” W x 2.00” H).
Weight	0.52kg (1.15 lbs) with internal Li-Ion battery.
Operation temperature	-20 to 50°C (-4 to 122°F) .
Keypad	Illuminating rubber keypad.
Languages	English, French, German, Spanish, Italian, Russian, Czech, Finnish, Chinese, Japanese, Hungarian.
Data Storage	On-board & removable up to 32 GB MicroSD card
Battery Life:	16 hrs (lithium-ion) (TBD).
AC Power Requirements	AC Mains: 100 VAC to 120 VAC, 200 VAC to 240 VAC.
Display Type	89 mm (3.5”) high resolution colour TFT display, 320 x 240 pixels (1/4 VGA), sunlight readable, including multiple colour pallets.
Backlight	Light Emitting Diode (LED) backlight. Includes variable light intensity.
Display Dimensions	70mm x 52.56 mm, 89 mm w x h x Diag. (2.76 in. x 2.07 in., 3.5 in.)
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	0.001-25.4 mm (0.0001”-1.00”) of any non-ferrous material with access to both sides.
Resolution	0.1mm (0.01”), 0.01mm (0.001 in), 0.001mm (0.0001 in) depending on thickness range.
Data Logger	Internal file-based alphanumeric data logger.
Memory Card	Maximum capacity: 32 GB removable MicroSD memory card.
Shut-off	Selectable 1-31 minutes or “Never” shut off.
Inputs/Outputs	USB 2.0 peripheral, port RS-232 (Optional), Bluetooth (optional): Send and receive readings and files via Bluetooth.
Environmental Testing	Designed for IP67.
Warranty	Limited 2 year warranty under normal use on parts and labour for gauge, 90 days for the probe. The probe should not be dropped or used around ferrous materials such as iron, steel, doing so will invalidate the warranty.

#### Standard Kit:

MTG-99 Magnetic Thickness Gauge  
PR-1 probe, 2 piece probe stand.  
Calibration kit  
Gauge Stand  
Charger adapter with USB cable  
Transport case  
MTG-Cable-10  
Coiled cable for PR-1,  
Datalogger, 2GB micro SD card &  
Data XL interface program.

#### Optional Accessories

Extended range calibration kit.  
External power supply with charger.  
  
FS-09: Footswitch.  
TG-FS: Footswitch modification  
  
CAL-NIST: NIST-traced calibration standards (set of six).  
  
Heavy Duty Bail: Variable angle stand, rubber boot, wrist strap.

#### PR-1 Accessories

MTG-CABLE-10: Coiled cable  
PR1-WC: Replaceable wear cap  
PR1-CWC: Chisel tip wear cap  
PR1-EWC: Extended wear cap

#### Optional Target Balls

BT-062: Target balls 1.58mm (1/16”)  
BT-125: Target balls 3.17 mm (1/8”)  
BT-187: Target balls 4.76 mm (3/16”)  
BT-250: Target balls 6.35 mm (1/4”)  
MBT-187: Magnetic 4.76mm (3/16”)  
MBT-250: Magnetic 6.35mm (1/4”)



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