

DATA SHEET

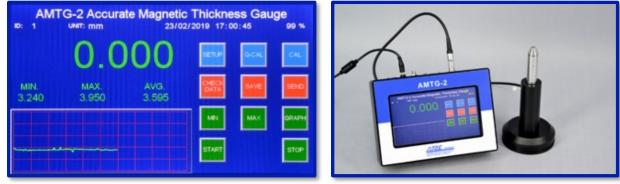
AMTG-2 Accurate Magnetic Thickness Gauge



The **AMTG-2** is a portable magnetic thickness gauge. It is used to measure the thickness of non-magnetic materials such as plastic, glass, ceramic, aluminum, titanium, copper, etc. The accuracy of the measurement is not affected by the shape of the samples.

It is designed using the Hall Effect principle. A simple, precise measurement is obtained using the following steps:

- Place the steel ball on one side of the sample and the probe on the opposite side.
- Move the sample so the probe and ball are in the desired testing position.
- The steel ball will be drawn to the probe through magnetism, automatically.
- The Hall Effect sensor on the probe accurately measures the distance between the probe tip and the steel ball.
- The measurement is displayed on the touchscreen.



Main Interface

AMTG-2 and Probe

Advantages:

- Non-destructive measurement.
- High resolution 7" touchscreen.
- Dynamic display: measurement of value / graph / date / hour / battery life.
- Full aluminum frame.
- Fast and accurate measurement of the thickness.
- Can obtain accurate thickness measurements in corners, small radius areas and some irregularly shaped materials.
- Displays real-time measurement value.
- Max. and Min. mode: Automatic capture of the maximum or minimum value.

Technical characteristics:

- · Measure mode: Normal / High accuracy
- Display mode: Real-time / Minimum or Maximum
- Resolution: 0.01 mm or 0.001 mm (0.001" or 0.0001")
- Display: TFT screen displays the real time reading, minimum reading, alarm status and data info
- Outputs: RS-232
- Calibration: Multi-point calibration (up to 13 points)
- Power : DC 8.4V
- Battery (optional): Rechargeable lithium battery. Full loaded working time without charging is approx 2-3 hours.
- Units: mm / Inch
- Language: English



Plastic Bottle Measuring



PET Preform Measuring



Aluminum Rottle Measuring

- Value difference function: Display the value difference between preset value and actual measured value.
- "CYCLE" function: Record Max, Min, Average value & generate graph during a predefined time. "Delayed start & Auto-stop" function frees the hands of operator and is convenient for large-size sample measuring.
- Alarm function: Programmable, warns the high or low preset value by sound or visual indicator.
- Password function enables the safety of the calibration data and measuring data.
- Can store 9999 measurement data sets.
- Dimensions: 210 x 150 x 65 mm
- Net weight: 2 kg (Package weight: 5 kg)
- Measure range:
 - Steel Ball Ø 4.76 mm: 0 to 6.35 mm
 - o Steel Ball Ø 3.18 mm: 0 to 4.57 mm
 - Steel Ball Ø 1.59 mm: 0 to 2.29 mm (Custom made for range 0-8 mm)
- Measure accuracy:
 - o Steel Ball Ø 4.76 mm: 1% ±0.003
 - Steel Ball Ø 3.18 mm: 2%
 - Steel Ball Ø 1.59 mm: 3%
 (Custom made for range 0-8 mm)



Glass Bottle Measuring



Aluminum Can Measuring

Standard configuration:

- Standard probe with cable and stand
- User manual
- Foot switch
- Power Charger
- Portable case
- 3 packs of steel balls and 3 supports: (Steel balls Ø: 1.59 / 3.18 / 4.76 mm)

Optional Items:

- Batery pack for up to 2-3 hours work disconnected from power.
- QUALIMESURE software
- Calibration pack



Calibration pack 0-6 mm (Optional)



Calibration pack 0-8 mm (Optional)





QUALIMESURE software (Optional)



Transport case