

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.
- 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.

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
- 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
 - 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:
 - 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)



Plastic Bottle Measuring



PET Preform Measuring



Glass Bottle Measuring



Aluminum 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 \varnothing : 1.59 / 3.18 / 4.76 mm)

Optional Items:

- Battery 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